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Audubon Field Notes

Published by the National Audubon Society in Collaboration with the U. S. Fish & Wildlife Service

50th CHRISTMAS BIRD COUNT

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AUDUBON FIELD NOTES

A bimonthly magazine devoted to the results of bird watching

Published by the National Audubon Society in Collaboration with the U. S. Fish & Wildlife Service

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Cover photograph of five team leaders of Harlingen, Texas, Count: Luther C. Goldman, L. Irby Davis, Anna May Davis, Terry Gill, Maurine Gill. ***This*** *area has reported the largest number of species for the last three years. Photograph by Luther Goldman.*

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WILL YOU be among those making a Breeding Bird Census this year?

(See page 185)

Fiftieth Christmas Bird Count

IT IS INDEED regrettable that Dr. Frank M. Chapman, the originator of the Christmas Bird Count, could not have lived to witness the fiftieth annual observance of this American ornithological tradition. By the time of Dr. Chapman's death the original Christmas Census experiment, in which 27 persons participated the first year, had expanded into the greatest cooperative ornithological project in North America. The Chapman substitute for the old "Christmas hunt," which required the killing of as many birds as possible, was a success which probably exceeded the expectations of its founder.

In the first year, only one count was of more than 5 hours duration, and one published count lasted only one-half hour. Participants that first year included such well-known names as Frank M. Chapman, Walter K. Fisher, Ralph Hoffmann, Lynds Jones, Charles H. Rogers, Witmer Stone, and Alexander Wetmore. On the following Christmas Day the number of participants increased more than 50 per cent and included such famous ornithologists as Elon Howard Eaton and Aretas A. Saunders. The duration of the average count increased from 3½ to 3¾ hours, and William Bacon Evans established a milestone by making the first all-day count at Moorestown, New Jersey. The Moorestown census has been continued with a few gaps to the present day, and its originator is still participating. The number of reports nearly doubled the third year, and the duration of the average count rose from 3¾ to 4¼ hours. The publication of a 3-hour census from Prince Edward Island where no birds were seen in spite of good conditions for observation showed the value of negative evidence on Christmas Counts.

By the sixth year, Dr. Chapman realized that the first stage of Christmas Bird Counting—that of arousing interest in field work and of encour-

Dr. Frank M. Chapman, who initiated the Christmas Bird Count in 1899 as a substitute for the "Christmas Hunt," on Barro Colorado Island, Gatun Lake, Canal Zone in January 1926. ***Photograph courtesy American Museum of Natural History.***

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aging definite methods of recording one's observations—was giving way to the accumulation of information which would provide a basis for comparison with the results obtained in other years, and permit scientific use of the data. By the eighth year, the Christmas Count occupied 18 printed pages and it became necessary to restrict the number of published reports, by accepting only one count per person from any one area; there still was no stipulation as to a minimum amount of time in the field. There were more counts from Massachusetts, Connecticut, New York, and Pennsylvania than from all other states and provinces combined. The first count containing 50 species, was submitted by Harry, Frank and Roy Latham who operated in three parties at Orient Point, Long Island. On the following year the Latham brothers conducted two counts, one with the assistance of George Griffin, and recorded 50 species at Orient, and 56 at Gardiner's Island, New York.

By the tenth year, observers were asked to indicate whether they were working together or in separate parties, and spurred on by a statement from Roy Latham telling how he obtained his fine lists, there was a decided improvement in the quality of the published counts. On the eleventh year, South Carolina and California began to take the spotlight away from Long Island, when Francis M. Weston, Jr., noted 52 species at Mount Pleasant, S. C., and J. H. Bowles, W. Leon Dawson and Watson Snyder found 76 species at Santa Barbara, California. In the very next year Mr. Dawson and Stewart Edward White presented the first list containing as many as 100 species, from Santa Barbara.

The fourteenth Christmas Count was kept to 25 pages by omitting counts which because of short duration or small number of birds recorded were not deemed representative of their region. Some counts of as little as two hours duration, however, were still included.

The instructions for the first Christmas Census stated that the observations should be made on Christmas Day, but from the very first year one or more counts were made on other days, and by the fifteenth year it became necessary to disqualify any reports from before December 20 or after the 30th. The sixteenth year saw ten observers from the Los Angeles Audubon Society, operating in 8 parties, exceed with a list of 121 species, the best count from Santa Barbara. In doing this they included records from points as far as 35 miles apart. In the vicinity of St. Marks, Florida, Ludlow Griscom showed what might be accomplished by a single observer in the Southeast by identifiying 85 species and subspecies in 12 hours. More than 40 reports were rejected for various reasons, and in the subsequent years the census rules became even more strict. The seventeenth count was limited to a minimum of 4 hours of observation, a maximum of 15 miles diameter, a duration of one calendar day, and a period of 7 days from which to choose.

In the twenty-second year, Ludlow Griscom and Maunsell S. Crosby recorded 109 species and subspecies in Wakulla County, Florida, beating California by more than 20 birds. Florida's glory was short-lived, however, for the highest lists promptly returned to Southern California, where they continued to grow. The 125 mark was first passed on the thirty-first count, when Santa Barbara reported 129 species; on the following year they boosted this to 140, and two years after this Santa Monica, California, recorded 156. The thirty-fifth Christmas Bird Count in December 1934 produced the highest number of species and subspecies yet recorded; this list of 170 forms (166 species) was submitted from Santa Monica by the Los Angeles Audubon Society. In the same year, Barnegat Bay, New Jersey, sent in a list of 105 species and subspecies, the highest enumeration by far from the Northeast up to that time. Directions for the thirty-seventh count raised the minimum hour requirement from 4 to 6, and in 1943 the minimum was raised to 7 except in the far north. Under the leadership of L. Irby Davis, Harlingen, Texas, appeared on the scene in 1935, and on the following year, with 164 birds, Harlingen took top honors away from California. They held this lead until 1941, when Charleston, South Carolina, and then Los Angeles took the spotlight. From 1947 to date, Harlingen has again retained the longest list. The number of areas reporting 100 species or over has increased so greatly that it is no longer practical to list all of them.

In 1945, the year of Dr. Chapman's death, 2300 persons participated in the Christmas Bird Count. On the fiftieth count, four years later, there were more than *twice* this number!

Some readers may wonder how much scientific value there is in this great assemblage of Christmas Count data. Surely there exists no comparable record of fifty years of observation at a given season over so wide an area. On the other hand, so many variable factors are involved that statistical analyses must be approached with considerable caution.

An analysis of the changes in abundance, average abundance, and frequency of occurrence of ten species in New York and New England over an eleven-year period was published in *Bird-Lore* in 1914 by E. H. Perkins. Using data which had not been intended for statistical treatment, but for which a relatively large sample was available, Mr. Perkins presented graphs to show the yearly stability of the Brown Creeper, the great flights of several northern finches, and the degree of variability in numbers of certain other resident or migratory species. Of particular interest was his graph showing variation in abundance of the Black-capped Chickadee. Up to that time it was believed that this species was relatively constant in numbers from year to year, but Perkins' conclusions as to the incorrectness of this hypothesis have been amply proved in subsequent years.

Not until Christmas Counts had been continuing nearly forty years was any extensive use made of them. Then Dr. Leonard Wing began an exhaustive study of the data, tabulated the early records, recorded data from more recent years on electrically sorted punch cards, and published some of his

findings. His analyses of each species followed the general plan of E. H. Perkins, except that the number of party-hours was substituted for the number of censuses. This made it possible to use almost all data regardless of the starting and stopping time or of the number of observers. Of course, some of the older counts did not contain all the necessary information regarding the number of hours of observation or the number of parties participating; others were of such short duration that their totals were disproportionately high because of concentrations at feeding stations. But on the whole, even the earliest ones can still be used for statistical calculations. Dr. Chapman's foresight in insisting that appropriate information on time and weather conditions accompany each report was an example of his ability to think ahead and visualize the future importance of the projects which he started.

The inclusion of habitat percentages since 1943 has greatly increased the potentialities of the Christmas Count, since for the first time we may know exactly how many party-hours were spent in habitats where certain species such as the Red-breasted Nuthatch or Red Crossbill occur. This enables us to compare the abundance of a species from year to year or from locality to locality on a much more scientific basis. Since Christmas Counts have now reached the stage where they cannot continue to expand in number much farther, every effort should be bent toward making them more representative, and above all, more useable for research workers. Uniformity in coverage is most advantageous because each variable factor that can be reduced to a minimum makes the results more useable.

The editors well realize that the success of the Christmas Count has depended largely upon its recreational value, and that the desire to amass a long list is still prevalent. They do not wish to dampen the enthusiasm of persons who have been participating merely for their own enjoyment, but rather to encourage all participants to take a broader view of the potentialities of the Christmas Count, and cooperate in every way to attain more representative and more nearly complete coverage of their 15-mile areas. By publishing lists of the highest counts for each species, we have succeeded in opening a new field of competition. In future issues it is planned to use heavy type for the most interesting birds and highest counts throughout; this should stimulate more interest in censuses from distant parts of the country, and give each participant a better understanding of the distribution and abundance of North American birds. But more important than any competition which may be aroused is the need for a complete summarization of the habitats covered on each count, and an effort on the part of all observers to give each habitat its appropriate amount of coverage. By taking cognizance of the kind of data which are best suited for statistical analysis, Christmas Bird Counters can make the next fifty years of counts far more valuable than those of the first half century.

The following table shows at a glance how the quality of Christmas Counts has steadily improved over the fifty-year period. The number of reports printed cannot be permitted to increase much beyond its present level, but there is no limit to the number of participants. The longest list has also approached its limit, but the number of areas submitting exceptionally fine counts can still grow. The number of reports acceptable for publication increased 47 over last year, but the number of participants was *945* more than last year.

Year	Reports Printed	Total Individuals	Total Observers	No. with 100 Sp.		Largest No. of Species
1900	25	10,000	27	0	36	Pacific Grove
1909	145	150,000	200	0	51	Orient, L. I.
1919	169	170,000	340	1	109	Santa Barbara
1929	205	350,000	500	2	121	Santa Barbara
1939	262	2,100,000	1900	15	154	Harlingen
1949	403	8,600,000	4615	28	151	Harlingen

It is impossible to mention by name the hundreds of persons who have contributed so heavily to the success of the Christmas Counts by participating regularly in rain or shine, during wind storms, in subzero temperatures, or at times when travel was difficult or hazardous. Likewise, the innumerable people who have helped to make the detailed arrangements which are so necessary to insure the success of the well-organized counts which involve participation of many persons; and last but not least, the compilers who so painstakingly gather all essential information and type it up in the proper form for publication.

Among all the Christmas Count participants two names stand out above the others: Charles H. Rogers and Harry B. McConnell.

Charles H. Rogers is the only person to have participated in all fifty Christmas Counts. He took his first one, alone, in Central Park, New York City, on December 25, 1900, at the age of 12 years. From 1913 to 1918 he served as editor of the Christmas Bird Count; and from 1920 on he has been curator of the Museum of Zoology at Princeton University, and organizer and compiler of the Princeton Christmas Count.

Harry B. McConnell made his first Christmas bird list at Cadiz, Ohio, in 1897, three years before the Christmas Count was started; but he did not submit a list to *Bird-Lore* until four years later. Thus he missed out on the first published census, but has participated in each succeeding one—always from the same area. Mr. McConnell has been connected with the *Cadiz Republican* for the past sixty-seven years, is now 82 years of age, and is still active as its assistant editor, having never lost a day by reason of sickness.

Variety.—Harlingen, Texas, once more succeeded in amassing the longest list of species, bettering their last year's count by 5 species, but falling short of their all time high of 163. Those areas reporting 125 or more species were as follows: Harlingen, Tex., 151; Charleston, S. C., 145; Los Angeles, Calif., and Laguna Atascosa National Wildlife Refuge, Tex., 144; Wilmington, N. C., 136; Oakland, Calif., 135; St. Marks, Fla., 129; St. Augustine, Fla., 127; and Rockport, Tex., 125. Among the other counts over 100 species, Cape

May, N. J., with 121 species, Southern Nassau County, N. Y., with 107, and Cape Cod, Mass., with 107 warrant special comment. Particularly fine counts from other areas include Western Long Island, 106; St. Francisville, La., 105; Little Compton, R. I., 93; Portland, Oreg., 90; Decatur, Ala., 85; Buckeye Lake, Ohio, 83; Blacksburg, Va., 74; Bosque del Apache National Wildlife Refuge, N. Mex., 74; Boonton, N. J., 73; Pere Marquette State Forest, Ill., 72; Atlanta, Ga., 71; Buffalo, N. Y., 70; Youngstown, Ohio, 69; Kansas City, Mo., 68; Hartford, Conn., 61; Milwaukee, Wis., 61; Brunswick, Me., 39; and Sioux Falls, S. Dak., 37.

Rarities.—The summary of highest counts at the end of this issue includes references to many of the more unusual reports which appeared on this year's Christmas Counts. Many other particularly interesting records are included in the discussion of general trends in the following paragraph. It is exceedingly difficult to select a few items for special comment because such a large number of extraordinary reports were received. The Cape Cod count included such vagrants as the Western Tanager and Curlew Sandpiper; the first record of the Black-headed Gull was obtained at Buffalo, N. Y.; 6 Franklin's Gulls were identified at Ashtabula, Ohio; a Black and White Warbler was found as far north as Southern Nassau County, N. Y.; the first winter record of the Gray Vireo in the United States was established at Tucson, Ariz.; and 2 Emperor Geese were observed at Monterey, Calif.

General trends.—Exceptionally warm weather in the northeast was reflected on a great many counts by the presence of southern species north of their normal wintering range, by unusually large numbers near the northern limit of their normal range, and by a general scarcity to the south. Savannah Sparrows, which last year reached Ohio and Massachusetts, were found as far as Charleston, W. Va., Blenheim, Ont., Buffalo, N. Y., and Cape Cod (3) in 1949. As many as 17 were recorded at Providence, R. I.

Field Sparrows were very common in the New York City area (105 in Bronx) and were recorded north to Northampton and Quincy, Mass. Further west, 35 were identified at Lafayette, Ind., and 2 to 4 individuals were found north to Lakewood, Ohio, Blenheim and Hamilton, Ontario, and Buffalo, N. Y. In the piedmont and mountain areas of Maryland, Virginia, and West Virginia, numbers were way above normal. Likewise, the Chipping Sparrow appeared at points as far north as Doniphan, Mo., Charleston, W. Va., Washington, D. C., Boonton, N. J., Rockland County, N. Y. (4), and Cape Cod (5), and an astonishing count of 21 was made at Moorestown, N. J.

Other interesting sparrow records included the Grasshopper Sparrow at Quogue, L. I., Henslow's at Steubenville, Ohio, Harris's at Dayton, Ohio and Salt Lake City, Utah, Vesper at Schenectady, N. Y., and White-throated at Sterling, Colo. Southern records of note were a Slate-colored Junco at Del Rio, Tex., and a Tree Sparrow at Indianola, Miss.

Pine Siskins were scattered as far south as Rockport, Tex., but the total number of reports of this species was no larger than usual. The only northern finch which was especially common and widespread was the Evening Grosbeak. This species was recorded as far south as Portland, Oreg., Salt Lake City, Utah, Nebraska National Forest, Nebr., State College, Harrisburg, York and Lancaster, Pa., Mount Holly, N. J., Southern Nassau County, N. Y., and Cape Cod, Mass.

The Snowy Owl flight was so spectacular that it is shown on a map on page 65. This was also a big year for Northern Shrikes; they were identified as far south as Klamath Falls and Burns, Oreg., Salt Lake City, Utah, Lyons and Sterling, Colo., Baldwin, Kans., and Barnegat, N. J., and were particularly common in Long Island and in New England.

The flight of Red-breasted Nuthatches covered virtually the entire United States, and the highest single count jumped from 20 in 1948 to 175 in 1949. The southernmost localities from which this nuthatch was recorded were San Francisco, Oakland and Yosemite, Calif., Santa Catalina Mountains, Ariz., El Paso and Fort Worth, Tex., Birmingham, Ala., Great Smoky Mountains National Park, Tenn., and Columbia and Charleston, S. C. This flight was paralleled in the West by a notable movement of Pygmy Nuthatches; last year's highest count was 22, compared with 158 this year. The highest counts were from Spokane, Wash., and the Santa Catalina Mountains, Ariz., but good numbers were also noted at Monterey and Big Bear Lake, Calif., and 2 reached El Paso, Tex.

Pigeon Hawks were reported as far north as Eugene and Klamath Falls, Oreg., Salt Lake City, Utah, Fort Collins and Greeley, Colo., Delaware, Ohio, and Cape Cod, Mass.

Gannets created quite a sensation in the Great Lakes and particularly along the north Atlantic coast. Single birds were found at Cleveland, Ohio, and Hamilton, Ont., and almost every coastal count from Charleston, S. C., to Well, Me., reported at least a few individuals. Exceptionally high counts were obtained at Cape Ann, Mass. (42) and at Amagansett, N. Y. (181).

Once again Ruby-crowned Kinglets wintered in numbers north of their normal winter range in the Midwest and East. The northernmost localities reporting this species were Sacramento and Yosemite, Calif., Santa Fe, N. Mex., Crete, Nebr., Kansas City, Mo., Detroit, Mich., Bucyrus and Lakewood, Ohio, Jamestown, Hamburg and Croton Point, N. Y., and Hartford, Conn.

Last year the Catbird was mentioned as wintering north to South Dakota, Ohio, West Virginia and Massachusetts; this year its limits were at Springfield, Ill., Cuyahoga Falls and Youngstown, Ohio, Rochester, N. Y., and Cape Cod, Mass. Three individuals were found at Youngstown, Ohio, and a remarkable count of 11 was obtained at Cape Cod. Stray Brown Thrashers were identified at Bosque del Apache National Wildlife Refuge, N. Mex., Sioux Falls, S. Dak., Des Moines, Iowa, Rockland County, N. Y., and Cape Ann, Mass. Winter Wrens were found north as far as St.

Thomas, London and Toronto, Ont., Rochester and Cortland, N. Y., Oxford and Saybrook, Conn., and Quincy, Mass.

Laughing Gulls also took advantage of the warm weather and remained well scattered along the Atlantic coast. They were recorded on five counts in southeastern New York, and also at Westport, Conn., and Providence, R. I.

Many interesting rail reports were included on the counts, and for most species the highest counts and the number of areas reporting were higher than last year. The King Rail was identified north to Rochester, N. Y., and Cape Cod, Mass.; the Clapper Rail (32!) to Smithtown, Long Island; the Virginia Rail to Provincetown, Mass.; and the Sora to Oceanside-Carlsbad, Calif., Reelfoot Lake, Tenn., Fairfield, Ala., and Southern Dorchester County, Md. A Yellow Rail was found at Houston, Tex., and a Black Rail at Little Compton, R. I.

There were records of the Woodcock north to Delaware, Ohio, and Northampton, Mass., and as high as 3600 feet at Cheat Bridge, W. Va. The Wilson's Snipe was particularly abundant as far north as Memphis, Tenn., and Washington, D. C., with smaller numbers recorded north to Bozeman, Mont., Minneapolis, Minn., Hovey Lake, Ind., Danville, Ky., Northampton and Quincy, Mass., and Waukesha, Wis.

A notable northward movement of the Least Grebe was recorded in southeastern Texas; 3 individuals were found north to Houston, and 4 at Galveston. Observers at Galveston also reported a Horned Grebe, a rare species on the Texas Coast. Further north, Pied-billed Grebes were generally recorded from areas north of their usual winter limit; single birds were noted in Southeastern Cook County, Ill., and at an elevation of 2460 feet in Garrett County, Md.; 22 were counted at Cape Cod.

One of the most interesting cases of a bird wintering north of its normal range was the Blue-winged Teal, a species which seldom is recorded in winter north of Louisiana and Chesapeake Bay. There were several reports in the lower Mississippi Valley, and scattered occurrences north to San Jose, Calif., Salt Lake City, Utah, Greeley, Colo., Salt Plains National Widlife Refuge, Okla., Kansas City, Mo., East St. Louis, Ill., Glenolden, Pa., and Bombay Hook National Wildlife Refuge, Del. The Cinnamon Teal was also more widely recorded than usual, and was found north to Monterey and Bakersfield, Calif., Salt Lake City, Utah, and Brownsville and Laguna Atascosa Refuge, Tex.

Observers.—We were grieved to hear of the death just before Christmas of Mr. Clifford H. Pangburn. Mr. Pangburn had been participating in Christmas Counts since 1905, and those which he has submitted from St. Augustine, Fla., in the past few years, have been among the highest in the country. He was actively interested in birds up to the last, and had completed plans for this year's count before he was stricken.

The number of observers who participated in the published counts rose from 3670 in 1948 to 4615 in 1949, and the number of persons per census increased from 10 to nearly 11½. Last year the largest number of observers on one count was 57. This year the largest cooperating group was the Detroit Audubon Society with 75 members contributing. Other areas with a particularly high number of participants were Northampton, Mass., and Portland, Oreg., with 61 each, and Moorestown, N. J., and Warren, Ohio, with 60 each.

Once again there were a number of cases where one group of observers submitted two or more separate counts from different areas. When the areas were sufficiently different from one another and were well covered by several observers they were all published; but when they were essentially the same type of area as another nearby count and were not so well covered, they were not accepted for publication. Once again we must urge observers to cooperate with groups which are already conducting Christmas Counts, and not to start new areas unless (1) they are sufficiently different from areas already being covered, and (2) there is some assurance that they can be censused thoroughly and uniformly in future years.

Participants traveled a linear distance of 35,300 miles, and over 9000 party-miles were covered on foot. There is a direct correlation between the number of miles covered on foot and the counts of most of the non-flocking species, so observers are urged to do as much counting as possible on foot, and use cars primarily for transportation between the more productive localities or in traveling from one representative habitat to another.

Editorial policy.—Once again, the "Domestic" Pigeon or Rock Dove has been included in cases where evidence was presented to show it was living a wild existence, but it has been deleted from lists which did not include details as specified in the instructions. This treatment is obviously unfair, since some observers omitted details inadvertently and many others omitted the species entirely even though their birds were just as wild as those recorded from other areas. Since "wild" Rock Doves are all descended from domestic stock, since the degree of wildness is so variable, since in many cases it is impossible to determine whether certain birds are wild or domestic, and since the distribution and abundance of this species is of so little interest to amateur and professional ornithologists, the best solution seems to be to ignore the Rock Dove completely in future counts.

The editors regret the delay in publication of this issue; the principal reason for this delay has been the large volume of correspondence necessitated by incomplete reports. If the published counts are to have their maximum value they must be accompanied by full information on coverage, weather, and details on unusual occurrences. Compilers can help prevent this delay in future years by following the revised instructions *precisely*.

Professor Samuel A. Eliot, Jr., most graciously offered to edit the New England counts again, and

to him the editors express their sincere thanks. The other counts were edited by Chandler S. Robbins and Dr. John W. Aldrich, who gratefully acknowledge the invaluable assistance of Mrs. Margaret Brooks Hickey in carefully checking the final manuscript.

1. Oahu, Hawaiian Islands (Kapalama Heights, Tantalus Trail, Kuapa Pond, Kaelepulu Pond, Bellows Field, Mokapu Peninsula-Ulupau Head, residential areas in Honolulu; ponds and marshes 30%, open country 17%, sandy beach 14%, coastal headland and adjacent crater 4%, lower forest 18%, residential areas 17%).—Dec. 26; 6:30 a.m. to 5 p.m. Cloudy, occasional showers; temp. 68° to 76°F.; wind E to SW, 2-21 m.p.h. Fifteen observers in 6 parties. Total hours, 26¾ (on foot); total miles, 248 (29 on foot, 219 by car). **Red-footed** Booby, 387; Brown Booby, 4; **Frigate Bird, 82;** Black-crowned Night Heron, 7; Black Brant, 1; Pintail, 815 (500 est., 315); Am. Coot, 641; Golden Plover (Pacific), 196; Ruddy Turnstone, 116; Bristle-thighed Curlew, 1; Wandering Tattler, 22; Sanderling, 15; Hawaiian Stilt, 86; Noddy Tern, 11; Chinese Dove, 203; Barred Dove, 263; Hawaiian Owl, 2; Elepaio, 6; Amakihi, 2; Japanese Hill Robin, 6; Mockingbird, 1; White-eye, 30; Mynah, 291; English Sparrow, 289; Ricebird, 136; Kentucky Cardinal, 42; Brazilian Cardinal, 11; House Finch, 39. **Total,** 28 species; about 3705 individuals.—Myrna Campbell, Mary Cummings, Ruth Dingus, Francis Evans, Mary Evans, Grace Gossard, E. B. Hamilton, Ida Hamilton, Bernice Kuhns, Louetta Kuhns, Blanche A. Pedley, Helen Peterson, Margaret Porter, H. Paul Porter, George Sonoda. (Hawaii Aubudon Society).

2. Memramcook, N.B. (country about Memramcook; and for 3 miles northeastward from Memramcook east along highway leading to Lower Aboushagan; mixed second-growth woods 50%, dykelands 25%, fields and pastures 25%).—Jan. 2; 10 to 12 a.m., 1:30 to 5 p.m. Cloudy to partly clear in a.m., dull in p.m.; temp. 22° to 32°F.; wind S, light; no snow, but ground well frozen. Total hours, 5½; total miles, 9 (afoot). Hungarian Partridge, 15; Rock Dove, 40 (living in abandoned barns); Pileated Woodpecker (fresh digging); Canada Jay, 1; Starling, 200 (roosting flock); English Sparrow, 200 (est.); Common Raven, 4; Black-capped Chickadee, 5; Purple Finch, 1; Pine Grosbeak, 3; Redpoll (sp.), 25; Snow Bunting 4. **Total,** 12 species; about 499 individuals. (Seen in area Dec. 24, Blue Jay, 2; Dec. 31, Herring Gull, 1, Crow, 2, Goldfinch, 2; Jan. 1, Brown-capped Chickadee, 2, Golden-crowned Kinglet, 4.) —Reid McManus.

3. Hudson Heights, Hudson and Como, Que. (1150 acres of which is the Whitlock Bird Sanctuary, 200 golf course, remainder mixed farmlands and woodlots; the villages above named. Total area extends from Harwood Road on west eastward about 4½ miles to a line parallel to and about ½ mile east of Como Station Road, and lies between the Montreal-Ottawa highway 17 on the south and the southerly shore of the Lake of Two Mountains on the north, these boundaries being about 1¾ miles apart; the eastward end of the area extends about ½ mile south of highway 17. Exclusive of residential areas of villages and sanctuary, as above, remainder of the area is about 50% farmlands and 50% decdiduous and mixed deciduous-evergreen woods).—Dec. 31; 7 a.m. to 4:30 p.m. Sunny; temp. 2° to 17°F.; wind light, variable, 1-3 m.p.h.; bar. 29.80; ground partly covered with 2-in. snow, water frozen except in a few ditches. Twenty-six observers in 10 parties. Total hours, 43 (on foot); total miles, 52 (on foot). Ruffed Grouse, 8; Pileated Woodpecker, 2 (♂ and ♀); Hairy Woodpecker, 9; Downy Woodpecker, 9; Blue Jay, 85; Am. Crow, 1; Black-capped Chickadee, 184; White-breasted Nuthatch, 17; Red-breasted Nuthatch, 5; Starling, 62; English Sparrow, 47; Evening Grosbeak, 99 (4 flocks: 24, 15, 40, 20); Pine Grosbeak, 17; Redpoll, 34 (24, 10); Pine Siskin, 16; Slate-colored Junco, 17; Tree Sparrow, 4 (these and 6 others frequent visitors to 'Winglands' banding station). **Total,** 17 species; 616 individuals. This count came in a period of mild weather such as not recorded for many years; some 20 inches of snow, which covered ground in early December, completely disappeared, and rain and fog prevailed. Apparent effect, abundance of food resulting in wide scattering of birds usually concentrated, at this season, near places of available food. (Seen in area in count period, Brown Creeper.)—Pat Baird, Ada Bonnard, Vi. Bryan, Amy Clarke, Audry Clarke, Marnie Clarke, Ed. Croll, Eunice Croll, Wendy Gray, George Gurden, Mack. Johnson, Althea Macaulay, Dunbar Mullan, John Mullan, Mary Mullan, Dolly Nelson, Geof. Ommanney, Kate Ommanney, Geo. M. Patterson, Gwen. Pinhey, Betty Puxley, George Riley, Sr., Drucilla Riley, Sr., Drucilla Riley, May Riley, Mac. Yuile.

4. Montreal, Que. (Mount Royal, Westmount Mountain, LaSalle, Ahuntsic, Cote St. Luc, St. Lambert, and Brosseau woods, Montreal South, Montreal West, south shore of St. Lawrence River from Mercier Bridge to Jacques Cartier Bridge and north shore from Dorval to Victoria Bridge, Heron Island, Goat Island, St. Helen's Island, Cartierville, Back River to Viau Bridge).—Dec. 26. Overcast; temp. 40° to 43°F.; wind SE, 14-18 m.p.h.; depth of snow in open country, nil. Thirty-four observers in 12 parties. Total hours, 66; total miles, 228 (46 on foot, 6 by boat, 176 by car). Mallard, 71; Black Duck, 1500 (partly est.); Pintail, 1; Greater Scaup Duck, 4; Am. Golden-eye, 770 (partly est.); Am. Merganser, 92; Goshawk, 2; Spar-

row Hawk, 2; Ruffed Grouse, 1; Ring-necked Pheasant, 143; Glaucous Gull, 17; Iceland Gull, 9; Great Black-backed Gull, 61; Herring Gull, 615 (partly est.); Ring-billed Gull, 12; Snowy Owl, 4; Yellow-shafted Flicker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 11; Am. Crow, 13; Black-capped Chickadee, 61; White-breasted Nuthatch, 8; Brown Creeper, 5; Winter Wren, 1; Northern Shrike, 2; Starling, 558 (partly est.); English Sparrow, 781 (not fully est.); Pine Grosbeak, 5; Common Redpoll, 5; Am. Goldfinch, 12. **Total,** 30 species; about 4771 individuals. (Seen on Dec 18, Brünnich's Murre, 6 (Terrill); Dec. 23, Peregrine Falcon (Montgomery); Dec. 25, Robin, Pine Siskin.)—J. P. Anglin R. Blanchard, P. N. Boultbee, Mrs. P. N. Boultbee, H. A. Bunker, Mrs. H. A. Bunker, J. D. Cleghorn, J. A. Decarie, F. DeKinder, P. DuBoulay, Mrs. P. DuBoulay, Rev. Brother V. Gaboriau, M. Glynn, G. H. Hall, G. E. Hibbard, J. Hirayama, H. A. C. Jackson, C. MacInnes, Rev. Brother Matthias, J. McLaren, G. H. Montgomery, Jr., Mrs. G. H. Montgomery, W. H. Rawlings, J. W. Robinson, Dan Ryan, Sr., G. Sanderson, D. M. Scott, H. F. Seymour, J. Somerby, C. H. Sullivan, L. McI. Terrill, Mrs. L. McL. Terrill, F. R. Terroux, K. G. Terroux.

5. Quebec, Que. (Same as area in 1948; town suburbs 13%, fields 19%, coniferous forests 15%, deciduous woods 40%, mixed woodlands 36%, shores 7%).—Dec. 28; 7:30 a.m. to 4:30 p.m. Cloudy; temp. 31° at start, 22° at return; wind NW, 18-25 m.p.h.; 5-12-in. snow on ground in the woods, fields almost bare; small rivers open; no ice on St. Lawrence River for one week (a record till 1918). Six observers in 3 parties. Total hours, 17 (on foot); total miles, 18 (on foot). Am. Merganser, 1; Bald Eagle (?), 1 (dark plumage [imm.?] seen for 5 min. at range of 150-2000 ft., no binoculars—L.-A.L.); Ring-necked Pheasant, 6; Ruffed Grouse, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Black-capped Chickadee, 19; Starling, 3; English Sparrow, 37; Evening Grosbeak, 5; Pine Grosbeak, 2; Common Redpoll, 31; Slate-colored Junco, 1; Snow Bunting, 14. **Total,** 14 species; 123 individuals. (Seen in area Jan. 1, Iceland Gull, 4, Great Black-backed Gull, 1; Dec. 18 and 20, Brünnich's Murre, 2; Dec. 18, Horned Owl, 1; Dec. 24, Bohemian Waxwing, 3, Cedar Waxwing, 2.)—Louis-A. Lord, Jean and Gilbert Lord, Jacques Talbot, François Hamel, Raymond Cayouette (La Société Zoologique de Québec).

6. Blenheim (Kent Co.) Ont. (Fargo, Blenheim, Morpeth, Cedar Springs, Erie Beach, Erieau and Rondeau Provincial Park; farmland 65%, water 20%, woods 12%, marsh 2%, town 1%).—Dec. 30; 8:30 a.m. to 5 p.m. Clear, with bright sunshine; temp. 31° at noon; wind moderately strong all day; visibility excellent; Lake Erie and Rondeau Bay open. Ten observers in 3 parties. Total party-hours, 29; total party-miles, 82 (22 on foot, 60 by car). Canada Goose, 25; Redhead, 3; Canvas-back, 2; Lesser Scaup Duck, 6; Am. Goldeneye, 50; Hooded Merganser, 5; Am. Merganser, 13; Red-breasted Merganser, 1; Cooper's Hawk, 1; Red-tailed Hawk, 9; Red-shouldered Hawk, 2; Broad-winged Hawk, 1 (D.A.A.) [no details given to back up this extraordinary report—Ed.]; Rough-legged Hawk, 25; Bald Eagle, 2; Marsh Hawk, 9; Ring-necked Pheasant, 1; Am. Coot, 3; Herring Gull, 178; Ring-billed Gull, 5; Bonaparte's Gull, 25; Mourning Dove, 1; Horned Owl, 2; Long-eared Owl, 2; Yellow-shafted Flicker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 28; Am. Crow, 179; Black-capped Chickadee, 73; White-breasted Nuthatch, 6; Brown Creeper, 8; Golden-crowned Kinglet, 31; Cedar Waxwing, 1; Starling, 297; English Sparrow, 502; Red-wing, 1; Cardinal, 40; Am. Goldfinch, 20; Savannah Sparrow, 1 (A.A.W.); Slate-colored Junco, 80; Tree Sparrow, 534; Field Sparrow, 50 (single flock, 1 collected—D.A.A.); Song Sparrow, 4; Lapland Longspur, 1; Snow Bunting, 60. **Total,** 44 species; 2292 individuals. (Seen recently: Snowy Owl, Screech Owl, Evening Grosbeak.)—D. A. Arnott, D. Blackburn, H. Evans, R. E. Graves, W. F. Hampton, H. W. Stewart, J. L. Whitlock, A. A. Wood, H. B. Wressell, C. H. Zavitz (Kent Nature Club).

7. Hamilton, Ont. (Dundas Valley west to Ancaster, Hamilton and harbor, Burlington Beach, Aldershot, Lake Medad, Bronte).—Dec. 26; 8 a.m. to 5 p.m. Rain, intermittent in a.m., continuous in p.m. with fog over water; temp. 38° to 44°F.; wind S, light; ground bare; streams and harbor open. Fifty observers in 19 parties. Total hours, 85; total miles, 172 (101 on foot, 71 by car). Common Loon, 1; Horned Grebe, 6; Gannet, 1 (imm.—J.L.B., W.W.G., F.Helleiner, R.W.T.); Mallard, 23; Black Duck, 99; Ring-necked Duck, 2; Greater Scaup Duck, 114; Lesser Scaup Duck, 4; Am. Goldeneye, 257; Buffle-head, 2; Old-squaw, 31; White-winged Scoter, 24; Ruddy Duck, 2 (G.N.); Hooded Merganser, 3; Am. Merganser, 106; Red-breasted Merganser, 2; Red-tailed Hawk, 8; Rough-legged Hawk, 1; Bald Eagle, 1; Sparrow Hawk, 13; Ruffed Grouse, 11; European Partridge, 7; Ring-necked Pheasant, 6; Glaucous Gull, 4; Iceland Gull (Kumlien's), 1 (ad.—G.N.); Great Black-backed Gull, 80; Herring Gull, 11,800 (est.); Ring-billed Gull, 300 (est.); Bonaparte's Gull, 3; Screech Owl, 3; Horned Owl, 13; Snowy Owl, 5; Long-eared Owl, 1; Belted Kingfisher, 1; Hairy Woodpecker, 10; Downy Woodpecker, 41; Blue Jay, 64; Am. Crow, 1; Black-capped Chickadee, 292; White-breasted Nuthatch, 29; Red-breasted Nuthatch, 4; Brown Creeper, 18; Robin, 2; Golden-crowned Kinglet, 7; Cedar Waxwing, 23; Northern Shrike, 6; Starling, 916; English Sparrow, 957; Cardinal, 76; Common Redpoll, 20; Pine Siskin, 30; Am. Goldfinch, 7; Slate-colored Junco, 415; Tree Sparrow, 466; Field Sparrow, 2 (G.N.); White-crowned Sparrow, 1 (P.H.—at feeder since Dec. 14); Swamp Sparrow, 1; Song Sparrow, 24. **Total,** 58 species; about 16,347 individuals. (Seen recently: Saw-whet Owl, Winter Wren, Catbird [R.E.], Evening Grosbeak, Purple Finch.)—Dean Axelson, Donald Babbs, Jas. L. Baillie, Eric W. Bastin, Jack Bond, Thelma Boorman, Donald

Bourne, Neil Bourne, R.D.F. and Mrs. Bourne, David Campbell, Jack Campbell, Wm. Campbell, Kenneth J. Cox, James Dowell, Robert O. Elstone, Bob Finlayson, Larry Gravefell, W. W. H. Gunn, Ian Halladay, Fred Helleiner, Peter F. Henderson, Fred L. Henderson, Dorothy Henwood, Wm. Holley, Angus B. Jackson, H. E. Kettle, Margaret Lamb, Gordon MacPartlin, Julius Mannheimer, Jack E. Martin, Douglas and Mrs. McCallum, G. O. McMillan, John Moule, Gertrude Nelson, Albert B. Nind, George W. North, James Nuttall, David Powell, Mrs. N. M. Robertson, Bob Sergeant, Laura Stewart, R. W. Trowern, Ann Watson, Mabel Watson, Mr. and Mrs. M. R. Watters, J. Harvey Williams, Laurel Williams (Hamilton Nature Club).

8. Kingston (Frontenac Co.), Ont. (farmland 43%, woodlands 8%, marshland 2½%, towns ½%, water 46%).—Dec. 26; 9 a.m. to 4:45 p.m. Overcast with rain, foggy part of time; temp. 40° to 45°; wind variable, 10-15 m.p.h.; no snow cover; Lake Ontario and St. Lawrence River open, smaller bays, rivers, and marshes mostly frozen. Twelve observers in 2 parties. Total man-hours, 67 [party hours not given—Ed.]; total miles, 175 (about 50 on foot, 125 by car). Black Duck, 7; Scaup Duck (sp.), 300; Am. Golden-eye, 9; Red-breasted Merganser, 2; Sparrow Hawk, 1; Ruffed Grouse, 11; Ring-necked Pheasant, 2; Glaucous Gull, 15; Great Black-backed Gull, 40; Herring Gull, 431; Ring-billed Gull, 8; Horned Owl, 2; Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 5; Am. Crow, 2; Black-capped Chickadee, 72; White-breasted Nuthatch, 7; Red-breasted Nuthatch, 1; Northern Shrike, 1; Starling, 140+; English Sparrow, 200+; Tree Sparrow, 36; **Total,** 23 species; 1295+ individuals. (Seen recently: Canada Goose, Snowy Owl, Blue Jay, Brown Creeper, Pine Siskin.)—A. Bell, Mr. and Mrs. T. Boardman, John Cartwright, A. Hyde, W. Lamb, B. Morrison, R. Stewart, Dr. Geo. Stirrett, Mr. and Mrs. L. Thornton, Dr. C. Vincent (Kingston Nature Club).

9. London, Ont. (valley of the Thames River from London to Delaware; Redman's Swamp, Trott's Swamp, coves, part of Dorchester Swamp, J. C. Higgins Farm at Lobo, 3 feeding stations in the same area; pasture 5%, deciduous woodland 20%, swamp 20%, mixed wooded river bank 55%).—Dec. 26; 8 a.m. to 4:30 p.m. Overcast, rain starting at dawn and continuing all day; visibility very poor: temp. at 8 a.m. 40°; wind SW, very light at first, 5-10 m.p.h. later; ground bare; river 8 to 10 ft. above normal; streams swollen; ponds almost entirely free of ice. Thirty-one observers in 10 parties observing mostly in the morning. Total party-hours, 60; total party-miles, 125 (50 on foot, 75 by car). Great Blue Heron, 1; Black Duck, 6; Am. Golden-eye, 69; Am. Merganser, 9; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 7; Rough-legged Hawk, 1; Bald Eagle, 1; Ruffed Grouse, 8; Ring-necked Pheasant, 15; Herring Gull, 29; Ring-billed Gull, 1; Mourning Dove, 9; Screech Owl, 3; Horned Owl, 2; Snowy Owl, 3; Belted Kingfisher, 1; Yellow-shafted Flicker, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 38; Blue Jay, 77; Am. Crow, 13; Black-capped Chickadee, 219; White-breasted Nuthatch, 22; Brown Creeper, 18; Winter Wren, 1; Golden-crowned Kinglet, 30; Cedar Waxwing, 7; Starling, 152; English Sparrow, 313; Purple Grackle, 1; Cardinal, 124; Evening Grosbeak, 3; Purple Finch, 14; Red-poll, 1; Pine Siskin, 2; Am. Goldfinch, 30; Slate-colored Junco, 164; Tree Sparrow, 172; White-throated Sparrow, 2; Swamp Sparrow, 2; Song Sparrow, 16. **Total,** 44 species, 1595 individuals. (Observed in area Dec. 24, Mallard; Dec. 21, Canada Goose; Dec. 17, Long-eared Owl, Northern Shrike; Dec. 22, Eastern Meadowlark.) H. Calvert, Dr. and Mrs. R. G. Cummings, John and Tom Cummings, A. Clendinning, Eli Davis, Vernon Franks, Ted Garside, Frank Girling, William Girling, Frances Girling, John Harvey, Mary Harvey, John Higgins, Mrs. C. Landery, Mrs. F. Landon, Jack Laughton, Gretchen Lawton, Jim Leach, Fred Lewis, Allan Loughrey, William Morris, Donald Pope, Keith Reynolds, Matthew Schoenfeld, Douglas Soper, Margaret Stevens, Charles Whitelaw, John and David Wismer (McIllwraith Ornithological Club).

10. Pickering Twp. (Ontario Co.), Ont. (15 acres of mixed woodland; white cedar 20%, hemlock 20%, poplar-birch-ironwood-maple 45%, uncultivated fields 15%).—Dec. 26; 7 a.m. to 4:30 p.m. Overcast with fog, drizzle, and rain; temp. 40°; wind S, 3-6 m.p.h.; some ice in fields and stream-bed; stream running under and over ice. Two observers separate. Total hours, 9½; total miles, 3 (on foot). Hairy Woodpecker, 1; Downy Woodpecker, 3; Blue Jay, 4; Black-capped Chickadee, 28; White-breasted Nuthatch, 2; English Sparrow, 10; Cardinal, 4; Am. Goldfinch, 6. **Total,** 8 species; 58 individuals.—Doris Huestis Speirs, J. Murray Speirs.

11. Point Pelee, Ont. (area within 7½-mile radius centered about 1 mile north of the boundary of the National Park; includes entire Park and agricultural land to the north enclosed by an arc from the lake shore south of Ruthven, passing a mile south of Blytheswood and back to the lake shore a mile east of Wheatley; lake shore 30%, cedar woods 10%, deciduous woods 30%, agricultural land 15%, cattail marsh, 15%).—Dec. 29; 7:45 a.m. to 5:15 p.m. Clear in a.m., high scattered clouds in p.m.; cool; wind N, raw, 12 m.p.h.; ground bare; drifting ice in lake along west shore of Point, light skim of ice on marsh in a.m. Six observers in 2 parties. Total hours, 18 (16 on foot, 2 by car); total miles, 69 (49 by car, 20 on foot). Black Duck, 36; Am. Golden-eye, 116; Buffle-head, 12; Am. Merganser, 235; Red-breasted Merganser, 19; unidentified ducks, 192; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Rough-legged Hawk, 3; Bald Eagle, 3; Marsh Hawk, 1; unidentified hawks, 2; Ring-necked Pheasant, 8; Herring Gull, 200 (est.); Ring-

billed Gull, 4; Horned Owl, 2; Snowy Owl, 2; Hairy Woodpecker, 2; Downy Woodpecker, 13; Horned Lark, 4; Blue Jay, 2; Am. Crow, 502; Black-capped Chickadee, 127; White-breasted Nuthatch, 2; Brown Creeper, 5; Winter Wren, 4; Golden-crowned Kinglet, 11; Northern Shrike, 1; Starling, 32; English Sparrow, 227; Red-wing, 4; Rusty Blackbird, 1; Cowbird, 550 (est.); Cardinal, 23; Am. Goldfinch, 75; Red Crossbill, 1 (R.B., A.A.W., C.H.Z.); Slate-colored Junco, 15; Tree Sparrow, 70; Swamp Sparrow, 3; Song Sparrow, 9. **Total,** 40 species; about 2525 individuals. (Seen just outside area, 2 more Snowy Owls.)—Richard Blackburn, Hugh Evans, H. L. Lancaster, Allan Streib, A. A. Wood, C. H. Zavitz (combined Kent and West Elgin Nature Clubs).

12. St. Thomas, Ont. (Waterworks marsh, Pinafore Park, Kettle Creek at Union, Port Stanley harbor, Springwater; cattail marsh 5%, pastureland 5%, deciduous woods 5%, lake shore 25%, creek banks 60%).—Dec. 26; 8 a.m. to 3 p.m. Complete overcast, rain intermittent until 10 a.m. then continual; temp. 40°; wind E, 5 m.p.h.; ground bare. Five observers in 4 parties. Total hours, 12½ (6 by car, 6½ on foot); total miles, 55 (50 by car, 5 on foot). Canada Goose, 12; Am. Golden-eye, 3; Black Duck, 200 (est.); Mallard, 12; Red-breasted Merganser, 1; Herring Gull, 250 (est.); Red-tailed Hawk, 4; Mourning Dove, 2; Screech Owl, 1; Snowy Owl, 1; Downy Woodpecker, 20; Hairy Woodpecker, 1; Blue Jay, 4; Am. Crow, 1; Black-capped Chickadee, 60; White-breasted Nuthatch, 6; Brown Creeper, 4; Winter Wren, 1; Golden-crowned Kinglet, 2; Starling, 25; English Sparrow, 60; Cardinal, 9; Purple Finch, 5; Am. Goldfinch, 10; Slate-colored Junco, 50; Tree Sparrow, 100 (est.); Song Sparrow, 6. **Total,** 27 species, about 850 individuals. (Seen in area Dec. 24, Belted Kingfisher; Dec. 27, Pileated Woodpecker.)—Fred Bodsworth, Ron Brooman, Marshall Field, Ken McCaw, Donald Young.

13. Toronto, Ont. (Lake Ontario waterfront from Humber River to Ashbridge's Bay, Toronto Islands, Humber and Don Valleys, various city parks and ravines, woods and fields immediately north of city limits; open fields 25%, wooded river valleys, 25%, waterfront area 30%, city parks 10%, ponds and marshes 10%).—Jan. 1; 7:45 a.m. to 5 p.m. Very dull, wet, and mild; considerable fog made observing difficult; temp. 36° to 40° to 39°; wind, NE to E, 6-10 m.p.h.; ground bare; lake and rivers open, ponds and marshes frozen. Nine observers in 6 parties. Total hours, 44; total miles, 86 (37 on foot, 8 by car, 36 by bicycle, 5 by boat). Great Blue Heron, 1; Mallard, 465; Black Duck, 1383; Pintail, 5; Shoveller, 12 (present all winter); Scaup Duck (probably all Greater), 1229; Am. Golden-eye, 211; Buffle-head, 62; Old-squaw, 1881 (650 est., 1231; a rather large concentration was in the harbor); Am. Merganser, 15; Red-tailed Hawk, 4; Rough-legged Hawk, 1; Sparrow Hawk, 8; Ring-necked Pheasant, 18; Great Black-backed Gull, 9; Herring Gull, 643; Ring-billed Gull, 25; Horned Owl, 7; Snowy Owl, 5 (plus 1 other found dead); Belted Kingfisher, 3; Hairy Woodpecker, 6; Downy Woodpecker, 30; Blue Jay, 9; Am. Crow, 1; Black-capped Chickadee, 174; White-breasted Nuthatch, 13; Red-breasted Nuthatch, 2; Brown Creeper, 11; Winter Wren, 1; Carolina Wren, 2; Robin, 2; Golden-crowned Kinglet, 36; Northern Shrike, 1; Starling, 677 (265 est., 412); Myrtle Warbler, 1 (seen regularly at a feeding station); English Sparrow, 781 (220 est., 561); Cardinal, 21; Purple Finch 2; Am. Goldfinch, 34; Slate-colored Junco, 115; Tree Sparrow, 118; Swamp Sparrow, 1; Song Sparrow, 24. **Total,** 43 species plus a Screech Owl found dead on a road; about 8049 individuals. (Seen in area recently, Cooper's Hawk, 1; Yellow-shafted Flicker, 1; Pileated Woodpecker, 1; Common Redpoll, 1.)—Jim Calladine, Bristol Foster, George Francis, George Gibson, Chris. Helleiner, Fred Helleiner, Aarne Lamsa, Jim McIntyre, Jim Woodford.

14. West Elgin (Aldboro and Dunwich Twps.), Ont. (area within 7½-mile radius of West Lorne; pine woods 2%, deciduous woods 50%, lake shore 10%, river banks 15%, grassy marsh 10%, pastureland 13%).—Dec. 27; 7:45 a.m. to 5:15 p.m. Foggy in a.m. with almost continual rain, clearing in p.m.; temp. 36° to 46° to 34°; wind E, 8 m.p.h., increasing at mid-day to 25-30 m.p.h., then veering W; lake and river free of ice but river and tributaries almost bank full of water; ground bare. Five observers in 2 parties. Total hours, 17 (16 on foot, 1 by car); total miles, 28 (15 by car, 13 on foot). Am. Golden-eye, 51; Black Duck, 1; Mallard, 5; unidentified duck, 1; Red-tailed Hawk, 5; Red-shouldered Hawk, 1; Rough-legged Hawk, 3; Marsh Hawk, 5; Bald Eagle, 1; unidentified hawk, 1; Woodcock, 1 [no details—Ed.]; Herring Gull, 10; Ring-billed Gull, 2; Mourning Dove, 25; Downy Woodpecker, 8; Horned Lark, 3; Blue Jay, 7; Am. Crow, 1; Black-capped Chickadee, 36; Brown Creeper, 2; Carolina Wren, 1; Robin, 1; Golden-crowned Kinglet, 2; Starling, 18; English Sparrow, 109; Cardinal, 3; Eastern Towhee, 1; Slate-colored Junco, 70; Tree Sparrow, 98; Song Sparrow, 1. **Total,** 28 species; 473 individuals. (Seen Dec. 23-26, Sharp-shinned Hawk, Lapland Longspur, Sparrow Hawk, Cooper's Hawk, Snowy Owl, Eastern Meadowlark, White-breasted Nuthatch, Screech Owl.)—H. L. Lancaster, J. K. Lancaster, R. E. Lemon, V. E. Lemon, Allan Streib (West Elgin Nature Club).

15. Sheho, Sask. (farm grove, buildings, and adjacent fields near the William Niven farm, 5 miles north of Sheho).—Dec. 29; 9 a.m. to 5 p.m. Overcast in a.m., clear by noon; temp. –20° in a.m., –10° during day; wind NW, 5 m.p.h.; ground covered with 4–5-in. snow on the level, 12–18-in. drifts in bluffs. Total hours, 7 (on foot); total miles, 4. Cooper's Hawk, 1; Ruffed Grouse, 2; Sharp-tailed Grouse, 32; Horned Owl, 1; Hairy Woodpecker, 2; Downy Woodpecker, 2; Am. Mag-

pie, 3; Black-capped Chickadee, 6; Pine Grosbeak, 12; Snow Bunting, 35. **Total,** 10 species; 96 individuals.—William Niven.

16. Yorkton, Sask. (area 15 miles in diameter with Yorkton as center).—Dec. 26; 9 a.m. to 4:30 p.m. Overcast with snow flurries in a.m., clear in p.m.; temp. 0° at start, 6° at noon; wind E, 3 m.p.h.; snow averaging 3 in. in depth. Twelve observers in 4 parties. Total party-hours, 11½ (6 by car, 5½ on foot); total party-miles, 40 (34 by car, 6 on foot). Ruffed Grouse, 2; Sharp-tailed Grouse, 46; European Partridge, 28; Downy Woodpecker, 2; Canada Jay, 2; Am. Magpie, 8; Black-capped Chickadee, 17; White-breasted Nuthatch, 1; English Sparrow, 441 (est.); Common Redpoll, 38; Snow Bunting, 821 (est.). **Total,** 11 species; about 1406 individuals. (Snowy Owl noted Dec. 22 and Dec. 27; Bohemian Waxwings, Dec. 24 and Dec. 28.)—Wayne Bjorgan, Jerry Bulitz, Lionel Coleman, Doug Logan, D'Arcy Wershler, Merle Wershler (Simpson School Nature Club), and Jim Allen, Brother Clarence, Dr. C. J. Houston, Dr. S. C. Houston, C. Stuart Houston, Brother Vincent (Yorkton Natural History Society).

17. Brunswick, Me. (Bailey's Island, Orr's Island, Cundy's Harbor, Harpswell, Merepoint; open bays 40%, meadowland 30%, deciduous and coniferous woods 30%).—Dec. 26; 6 a.m. to 4 p.m. Temp. 34°, wind SW, 30 m.p.h. Seven observers in 4 parties. Total hours, 53; total miles, 78 (65 by car, 13 on foot). Common Loon, 2; Horned Grebe, 2; European Cormorant, 24; Black Duck, 120; Pintail, 21; Am. Golden-eye, 263; Buffle-head, 19; Old-squaw, 55; White-winged Scoter, 4; Surf Scoter, 37; Am. Scoter, 8; Red-breasted Merganser, 34; Red-tailed Hawk, 2; Rough-legged Hawk, 1; Bald Eagle, 3; Sparrow Hawk, 1; Ruffed Grouse, 1; Purple Sandpiper, 24; Great Black-backed Gull, 9; Herring Gull, 1120; Yellow-shafted Flicker, 2; Hairy Woodpecker, 4; Downy Woodpecker, 4; Blue Jay, 7; Am. Crow, 141; Black-capped Chickadee, 127; Red-breasted Nuthatch, 38; Brown Creeper, 6; Robin, 1; Golden-crowned Kinglet, 9; Northern Shrike, 1; Starling, 235; Mrytle Warbler, 5; English Sparrow, 18; Evening Grosbeak, 20; Pine Grosbeak, 11; Am. Goldfinch, 138; White-winged Crossbill, 102; Tree Sparrow, 16. **Total,** 39 species, 2658 individuals.—N. Dane II, V. L. Fortin, W. E. Greig, P. M. Henry, E. Pols, W. Turner, F. B. Whitman.

18. Calais, Me. (from Red Beach to Moosehorn Wildlife Refuge, out the Meddybemps Road to Charlotte, back to Baring and return to Red Beach with a short run to Mill Cove in Robbinson).—Dec. 26; 9:15 a.m. to 4 p.m. Weather variable; temp. 20° to 30°; wind moderate. Five observers in 2 parties. [Total hours not stated—Ed.] Total miles, 76 (73 by car, 3 on foot). Horned Grebe, 1; Black Duck, 90 (est); Am. Golden-eye, 99; Buffle-head, 46; Am. Merganser, 83; Bald Eagle, 1; Great Black-backed Gull, 400 (est.); Herring Gull, 402; Hairy Woodpecker, 1; Downy Woodpecker, 1; Common Raven, 1; Am. Crow, 37; Black-capped Chickadee, 5; Starling, 25; English Sparrow, 5; Pine Grosbeak, 4; Pine Siskin, 450 (est.); White-winged Crossbill, 20. **Total,** 18 species; about 1671 individuals.—Nellie Ross, Kenneth Ross, Arlo Bates, John M. Dudley, Kenneth G. Estabrook.

19. Mt. Desert Island, Me. (beach and salt water 50%, red spruce with scattered hardwood 35%, burned coniferous forests 10%, town suburbs 5%).—Dec. 28; 7:30 a.m. to 4 p.m. Clear; temp. 40° to 30°; wind SW, 20 m.p.h. Total hours, 8½; total miles, 46 (40 by car, 6 on foot). Common Loon, 2; Horned Grebe, 10; European Cormorant, 3; Black Duck, 258; Greater (?) Scaup Duck, 1; Am. Golden-eye, 64; Buffle-head, 38; Old-squaw, 14; Am. Eider, 2276; White-winged Scoter, 24; Red-breasted Merganser, 1; Bald Eagle, 1; Ruffed Grouse, 1; Great Black-backed Gull, 2; Herring Gull, 413; Dovekin, 1; Black Guillemot, 10; Blue Jay, 1; Common Raven, 22; Am. Crow, 15; Black-capped Chickadee, 28; Red-breasted Nuthatch, 2; Golden-crowned Kinglet, 2; Starling, 25; English Sparrow, 25; Pine Grosbeak, 7; White-winged Crossbill, 4. **Total,** 27 species; 3250 individuals. (Such common birds as the Downy and Hairy Woodpecker, Slate-colored Junco, and Tree Sparrow were unfortunately not observed, but had been observed quite frequently before the count; 4 Red Crossbills and 1 Northern Shrike were observed on Dec. 25.)—Robert Howe, Ralph H. Long, Jr.

20. Presque Isle, Me. (Aroostook Valley Park area to 3 miles down the Aroostook River; deciduous woods 25%, cultivated and waste fields 50%, bushy swamps 15%, coniferous woods 10%).—Dec. 31; 8 a.m. to 4:30 p.m. Clear; temp. 3° to 12°; wind NW, 10–15 m.p.h.; ground frozen; river mostly frozen except at brook-mouths; very little snow except in woods and gullies. Three observers together. Total hours, 7; total miles, 9 (on foot). Hairy Woodpecker, 3; Downy Woodpecker, 1; Blue Jay, 4; Black-capped Chickadee, 24; Starling, 1; English Sparrow, 12; Pine Grosbeak, 7; Redpoll, 12. **Total,** 8 species; 64 individuals.—Richard Barresi, Al Burnett, Philip E. Glidden.

21. Wells, Me. (Bald Head Cliff to Kennebunk Beach; coast rocky in places, mostly sand beach or salt marsh; inland country open with some spruce, white and pitch pine, and scrub maple).—Dec. 26; 7 a.m. to 4:30 p.m. Overcast, to drizzle in p.m.; temp. 40° to 45°; wind SE, calm to 30 m.p.h; ground bare. Three observers together. Total miles, 54 (by car; nominal on foot). Common Loon, 20; Red-throated Loon, 1; Holboell's Grebe, 1; Horned Grebe, 30; Gannet, 3 (1 ad., 2 imm., at Wells, and 1 ad., possibly the same at Kennebunk Beach); European Cormorant, 1; Black Duck, 95; Am. Golden-eye, 200; Barrow's Golden-eye, 1 ♂ (at Wells Beach for 4th consecutive winter); Old-squaw, 60; Am. Eider, 200; King Eider, 7 ♂ (2 fully adult); White-winged Scoter, 80; Surf Scoter,

100; Am. Scoter, 16; unidentified, 100; Am. Merganser, 2 (O.M.R.); Red-breasted Merganser, 30; Purple Sandpiper, 6; Glaucous Gull, 2; Iceland Gull, 2; Great Black-backed Gull, 30; Herring Gull, 500; Snowy Owl, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Horned Lark (Northern), 2; Blue Jay, 3; Am. Crow, 20; Black-capped Chickadee, 10; Northern Shrike, 1; Starling, 2; Myrtle Warbler, 1; Am. Goldfinch, 47; Tree Sparrow, 10. **Total,** 34 species; about 1583 individuals.—Robert Treat Paine III, Oscar M. Root, Wendell Taber.

22. Dummer and Stark (Coos Co.), N. H. (Canadian forest and open fields).—Dec. 28; 8:30 a.m. to 3:30 p.m. Cloudy with snow showers; temp. 25° to 30°; ground covered with 4-in. snow. Total miles, 10 (on foot). Ruffed Grouse, 4; Black-capped Chickadee, 25; Brown-capped Chickadee, 2; Red-breasted Nuthatch, 1; Golden-crowned Kinglet, 5; Evening Grosbeak, 61; White-winged Crossbill, 9. **Total,** 7 species; 107 individuals.—Stewart Duncan, Stuart K. Harris.

23. Bennington, Vt. (Everett orchard, woods on east slope of Mt. Anthony, woods east of State Fish Hatchery, Bennington village and fields around it; apple orchard and mixed woods 50%, open fields and bushy swamps 25%, 4 feeding stations 25%).—Dec. 24; 8 a.m. to 4 p.m. Clear; temp. 22° to 28°; wind SW, 2-4 m.p.h.; ground covered with 1-4-in. snow. Twelve observers in 7 parties (4 afield, 3 at feeding station). [Total hours not stated—Ed.] Total miles, 41 (18 on foot, 23 in car). Ruffed Grouse, 3; Ring-necked Pheasant, 3; Barred Owl, 1; Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 8; Blue Jay, 11; Am. Crow, 17; Black-capped Chickadee, 33; White-breasted Nuthatch, 8; Brown Creeper, 4; Starling, 300 (est.); English Sparrow, 100 (est.); Evening Grosbeak, 4; Purple Finch, 3; Pine Grosbeak, 4; Common Redpoll, 12; Am. Goldfinch, 14; Slate-colored Junco, 7; Tree Sparrow, 30; Song Sparrow, 1. **Total,** 21 species; about 565 individuals. (This total of 21 is the highest in Dr. Ross's 39 consecutive Christmas Counts.)—Dr. and Mrs. Lucretius H. Ross, Mr. and Mrs. Thomas Foster, Stella Higgins, Margery Ludlow, Erna Camradt, Henrietta Barrow, Dorothy Barrow, Roger Hunt, Howard Nash, Joel C. R. Palmer.

24. Brattleboro, Vt. (highway up West River to Newfane, and down New Hampshire bank of Connecticut River toward Hinsdale; mixed forest 50%, rivers 50%).—Jan. 1. Clear to partly cloudy; temp. 16° to 36°; light snow on ground; river frozen, except in open patches. Two observers together. Total hours, 7; Total miles, 35 (30 by car, 5 afoot). Am. Golden-eye, 1; Am. Merganser, 1; Herring Gull, 7; Pileated Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 4; Blue Jay, 7; Am. Crow, 17; Black-capped Chickadee, 18; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 1; Starling, 22; Pine Grosbeak, 5; Am. Goldfinch, 9. **Total,** 14 species; 98 individuals.—John MacArthur, J. W. MacArthur, Jr.

25. Burlington, Vt. (city, including waterfront on Lake Champlain, to Colchester Pt., 7 miles northwest, and south along railroad to mouth of Winooski River; residential area 10%, coniferous woodland 10%, lake shore 70%, fields 5%, bushy swamps 5%).—Jan. 1; 7:30 a.m. to 4 p.m. Cloudy in a.m., sunny in p.m.; temp. 30° to 40°; wind SE, calm to very slight; ground bare; lake and river-mouth open. Total hours, 8; total miles, 25 (20 by car, 5 on foot). Common Loon, 1; Horned Grebe, 2; Mallard, 4; Black Duck, 152; Am. Golden-eye, 500 (est.); White-winged Scoter, 3; Am. Merganser, 11; Herring Gull, 1400 (est.); Downy Woodpecker, 2; Blue Jay, 2; Am. Crow, 5; Black-capped Chickadee, 27; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 1; Starling, 300 (est.); English Sparrow, 115 (est.); Tree Sparrow, 28. **Total,** 17 species; about 2555 individuals. (Seen in area Dec. 30; Ring-billed Gull, 2; Evening Grosbeak, 5; White-winged Crossbill, 4.)—Elizabeth Ball, Marguerite Kingsbury, Anna Reynolds, Marian Smith.

26. Middlebury, Vt. (same route as last 2 years; village suburbs 1%, open farmland 40%, mixed hardwoods-conifer second-growth 59%).—Dec. 31; 8 a.m. to 3 p.m. Clear; temp. 8° to 24°; wind W, 1-7 m.p.h.; 1-in. snow; all brooks frozen. Total hours, 7; total miles, 7 (on foot). Ruffed Grouse, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 2; Black-capped Chickadee, 4; White-breasted Nuthatch, 4; Evening Grosbeak, 14. **Total,** 7 species; 30 individuals.—A. M. Decker.

27. Wells River, Vt. (north, west, and south of town, including portions of the Connecticut and Wells River valleys at altitudes ranging from 400 to 1100 ft.; 2 miles beside open water of the Connecticut River; mixed woodland 60%, open farmland 35%, village street, 5%).—Dec. 30; 10 a.m. to 5 p.m. with added time at dawn in owl habitat. Clear; temp. 12° to 17° to 12°; wind NW, 10-25 m.p.h.; 1-in. powdery snow; rivers almost clear of ice. Total miles, 12 (on foot). Am. Golden-eye, 2; Am. Merganser, 11; Sparrow Hawk, 1; Ruffed Grouse, 13; Ring-necked Pheasant, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 1; Blue Jay, 4; Am. Crow, 3; Black-capped Chickadee, 131 (16 flocks); Red-breasted Nuthatch, 3; Brown Creeper, 1; Starling, 32; Pine Grosbeak, 29; Common Redpoll, 100; Pine Siskin, 6; Tree Sparrow, 14. **Total,** 17 species; 353 individuals.—Wendell P. Smith.

28. Woodstock, Vt. (east, west, and south of town, and village streets; elevation 800 to 1400 ft.; mixed woodland 40%, open farmland 60%).—Dec. 29; 8 a.m. to 4 p.m. Mostly clear with occasional snow showers; temp. 12° to 20°; wind N to NW, strong; ground covered with 2-in. fresh snow. Eight observers in 3 parties. [Total hours not stated—Ed.] Total miles, 24 (20 in car, 4 on foot). Ruffed Grouse, 1; Hairy Woodpecker, 1; Downy Woodpecker, 2; Blue Jay, 4; Black-capped Chickadee, 48; White-breasted Nuthatch, 4; Starling, 1;

English Sparrow, 6; Evening Grosbeak, 27; Common Redpoll, 8; Tree Sparrow, 6. **Total,** 11 species; 108 individuals.—Mr. and Mrs. T. S. Fillebrown, Mrs. Delmar Jones, Mrs. Robert Lake, Mr. and Mrs. Richard Marble, Mr. and Mrs. Edward C. Taylor.

29. Belmont and Fresh Pond (Cambridge), Mass. (entire town of Belmont plus adjacent Fresh Pond and Fresh Pond marshes; same as previous 15 years; greatest diameter 4 miles; deciduous woodland 35%, open meadow 10%, ponds 5%, evergreen woodland 20%, residential 30%).—Dec. 30; 8 a.m. to 4:40 p.m. Clear; temp. 15° to 25°; wind NW, 20-30 m.p.h.; ground bare; ponds in Belmont completely frozen, open water in Cambridge. Eleven observers, most for only a few hours. Total hours, 32; total miles, 30 (on foot). Mallard, 7; Black Duck, 34; Green-winged Teal, 1; Am. Merganser, 36; Sparrow Hawk, 4; Ring-necked Pheasant, 13; Great Black-backed Gull, 1; Herring Gull, 251; Long-eared Owl, 6; Yellow-shafted Flicker, 2; Downy Woodpecker, 2; Blue Jay, 23; Am. Crow, 17; Black-capped Chickadee, 105; White-breasted Nuthatch, 4; Red-breasted Nuthatch, 1; Starling, 84; English Sparrow, 31; Purple Finch, 12; Am. Goldfinch, 15; Slate-colored Junco, 45; Tree Sparrow, 78; White-throated Sparrow, 3; Song Sparrow, 7. **Total,** 24 species; 786 individuals. (Count much below last year's, due to the strong, cold wind.)—Mr. and Mrs. Harold Brown, Mrs. Francis Davis, Mrs. G. A. Drew, George Drew, Mrs. Hervey Elkins, Kimball C. Elkins, Mrs. Hugh Ferguson, Rosemary T. Gilmartin, Robert T. Paine III, Robert E. Smolker, Mrs. William Underwood.

30. Cape Ann, Mass. (Beverly, Essex, Manchester, Gloucester, Rockport, Ipswich Beach, as in previous years).—Dec. 26; dawn to sunset. Clear to partly cloudy; temp. 20° to 40°; wind SE, moderate; ground bare, ponds and marshes largely frozen. Thirty-one observers in 8 parties. Total party-hours, 60; total party-miles, 260 (240 by car, 20 on foot). Common Loon, 21; Red-throated Loon, 15; Holboell's Grebe, 5; Horned Grebe, 24; Gannet, 42; European Cormorant, 147; Snow Goose (Greater), 1 (fresh wing and claw found by Burnett); Black Duck, 1509; Greater Scaup Duck, 2; Am. Golden-eye, 827; Buffle-head, 60; Old-squaw, 32; Am. Eider, 18; White-winged Scoter, 152; Surf Scoter, 8; Am. Scoter, 6; Red-breasted Merganser, 188; Sharp-shinned Hawk, 2; Peregrine Falcon, 2; Sparrow Hawk, 3; Ring-necked Pheasant, 3; Purple Sandpiper, 169; Glaucous Gull, 2; Iceland Gull, 16 (Iceland, 15, Kumlien's, 1); Great Black-backed Gull, 678; Herring Gull, 8615; Ring-billed Gull, 1; Bonaparte's Gull, 12; Common Kittiwake, 13; Brünnich's Murre, 1; Dovekie, 6; Black Guillemot, 2; Mourning Dove, 12; Snowy Owl, 4; Yellow-shafted Flicker, 17; Downy Woodpecker, 12; Horned Lark (Northern), 9; Blue Jay, 36; Am. Crow, 281; Black-capped Chickadee, 253; White-breasted Nuthatch, 4; Red-breasted Nuthatch, 5; Brown Creeper, 5; Brown Thrasher, 1; Robin, 29; Golden-crowned Kinglet, 17; Northern Shrike, 4; Starling, 4575; Myrtle Warbler, 454; English Sparrow, 81; Purple Grackle (Bronzed), 1; Evening Grosbeak, 4; Purple Finch, 4; Pine Siskin, 2; Am. Goldfinch, 264; Slate-colored Junco, 78; Tree Sparrow, 122; Song Sparrow, 17; Lapland Longspur, 5; Snow Bunting, 79. **Total,** 61 species (1 additional subspecies); 18,957 individuals.—Joseph Bagnulo, James Baird, George Benda, Sally Bowker, Jerry Brown, Fred Bryant, Jean Burch, Frances Burnett, Albert W. Bussewitz, Steve Collins, Richard C. Curtis, James Downey, Michael Greene, Mr. and Mrs. Henry Halberg, Seward Highley, Mr. and Mrs. Lee Jamison, Ralph Lawson, Bertram Leadbeater, Mr. and Mrs. George Loring, C. Russell Mason, Joel Newman, Charles Preston, Douglas B. Sands, Mrs. Lincoln Simonds, Robert Smart, Dorothy E. Snyder, Kenneth Taylor, James V. Zimmer.

31. Cape Cod, Mass. (parts of Chatham, Brewster, Orleans, and Eastham).—Jan. 1; 1 hour before dawn to 1 hour after dark. Cloudy to partly cloudy; temp. 30° to 40°; wind NW, light; ground bare, frozen; marshes partly frozen, skim ice on fresh-water ponds. Thirty-two observers in 5 parties over same routes as previous years. Total party-hours, 48; total party-miles, 300 (280 by car, 20 on foot). Common Loon, 42; Arctic Loon, 1 (S.A.E., D.E.S.); Red-throated Loon, 21; Holboell's Grebe, 1; Horned Grebe, 33; Pied-billed Grebe, 22 (as last year); Gannet, 12; Great Blue Heron, 10; Black-crowned Night Heron, 29; Canada Goose, 7481; Brant, 500; Mallard, 5; Black Duck, 5180; Baldpate, 66; Redhead, 4; Greater Scaup Duck, 131; Lesser Scaup Duck, 43; Am. Golden-eye, 2561; Barrow's Golden-eye, 1; Buffle-head, 306; Old-squaw, 215; Harlequin Duck, 2; Am. Eider, 14,357; White-winged Scoter, 6338; Surf Scoter, 1; Am. Scoter, 6; Ruddy Duck, 85; Hooded Merganser, 3; Am. Merganser, 109; Red-breasted Merganser, 66; Goshawk, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 6; Red-shouldered Hawk, 1 (D.B.S., J.M.); Rough-legged Hawk, 2; Bald Eagle, 2; Marsh Hawk, 3; Peregrine Falcon, 1; Pigeon Hawk, 1 (collected; first winter specimen for Mass.); Sparrow Hawk, 10; Ruffed Grouse, 1; Bob-White, 1; Ring-necked Pheasant, 2; King Rail, 1 (J.M., D.B.S., J.D., M.G., and observed by others Jan. 2); Am. Coot, 7; Black-belled Plover, 5; Wilson's Snipe, 2; Curlew Sandpiper, 1 (clear-breasted bird with relatively curved bill, in group of 3-4 Red-backed Sandpipers; white rump noted in flight—J.M., D.B.S.); Red-backed Sandpiper, 895; Sanderling, 68; Great Black-backed Gull, 142; Herring Gull, 3138; Ring-billed Gull, 299; Laughing Gull, 5; Dovekie, 8; Horned Owl, 7; Snowy Owl, 3; Short-eared Owl, 4; Belted Kingfisher, 6; Yellow-shafted Flicker, 183; Hairy Woodpecker, 10; Downy Woodpecker, 36; Horned Lark, 107 (Northern, 106; Prairie, 1—Baird); Blue Jay, 126; Am. Crow, 395; Black-capped Chickadee, 808; White-breasted Nuthatch, 1 (R.F.); Red-breasted Nuthatch, 40; Brown Creeper, 7; Carolina Wren, 1; Long-billed Marsh Wren, 2; Mockingbird, 2 (Chatham and Eastham);

Catbird, 11 (remarkable count); Robin, 206; Hermit Thursh, 6; Eastern Bluebird, 416; Golden-crowned Kinglet, 34; Cedar Waxwing, 112; Northern Shrike, 3; Loggerhead Shrike, 1 (Baird); Starling, 923; Orange-crowned Warbler, 1 (C.R.M.); Myrtle Warbler, 3220; Pine Warbler, 18 (unprecedented); Palm Warbler, 12; Western, 11; Yellow-1—(D.E.S.); Yellow-throat, 1 (D.B.S., J.M.); Yellow-breasted Chat, 1 (Baird); English Sparrow, 131; Eastern Meadowlark, 40; Western Tanager, 1 (ad. ♂ identified by Baird and Morgan on Sept. 18, fifteen miles farther south, Griscom saw one with black wings and tail, possibly the same); Evening Grosbeak, 32; Purple Finch, 13; Common Redpoll, 41; Am. Goldfinch, 918 (unprecedented); Ipswich Sparrow, 10; Savannah Sparrow, 3 (Eastern 2; Labrador, 1—J.M., D.B.S.); Slate-colored Junco, 92; Tree Sparrow, 148; Chipping Sparrow, 5 (C.deW., J.T.K., C.R.M.); Field Sparrow, 3; White-throated Sparrow, 22; Fox Sparrow, 1; Swamp Sparrow, 18 (unprecedented); Song Sparrow, 88; Lapland Longspur, 2; Snow Bunting, 2. **Total,** 107 species (3 additional subspecies; 50,808 individuals. (Two Ring-necked Ducks and a Razor-billed Auk were seen in area on Dec. 31; 1 Mourning Dove and 3 Pine Siskins on Jan. 2.) Conditions duplicated those of last year to an even greater degree: a flood of birds on a mild cold wave Dec. 29-30, after the hottest December in history.—Virginia Armstrong, Joseph Bagnulo, James Baird, Jerry Brown, Fred Bryant, Mr. and Mrs. G. W. Cottrell, Clara deWindt, James Downey, Samuel A. Eliot, Jr., Robert Fox, Michael Greene, Ludlow Griscom, Mr. and Mrs. Henry Halberg, Seward Highley, Robert Hillman, James T. Kelly, Harry Levi, Mr. and Mrs. C. Russell Mason, James Moran, Marjorie Morando, Allen H. Morgan, Nadine Nelson, Mrs. Haven Parker, Henry M. Parker, Oscar M. Root, Douglas B. Sands, Robert Smart, Dorothy E. Snyder, Charles L. Ward, Jr.

32. Cohasset and North Scituate Beach, Mass.—Dec. 25; 9 a.m. to sunset. Partly cloudy; temp. 40°; wind NE, light; ground bare. Observers together. Total miles, 14 (4 on foot, 10 in car). Common Loon, 1; Red-throated Loon, 2; European Cormorant, 16; Black Duck, 63; Scaup Duck (sp.), 73; Am. Golden-eye, 6; Buffle-head, 56; White-winged Scoter, 2; Red-breasted Merganser, 6; Red-shouldered Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 1; Great Black-backed Gull, 8; Herring Gull, 287; Yellow-shafted Flicker, 2; Blue Jay, 4; Am. Crow, 3; Black-capped Chickadee, 32; White-breasted Nuthatch, 1; Starling, 12; Myrtle Warbler, 6; Palm Warbler, 1 (a well-marked bird of the Western race, seen in full sunlight—W.M.T.); English Sparrow, 6; Slate-colored Junco, 16; Tree Sparrow, 12; Song Sparrow, 5. **Total,** 26 species; 623 individuals.—Laurence B. Fletcher, Winsor M. Tyler.

33. Holyoke, Mass. (Mt. Tom to Conn. line; same area as in 1932 and subsequent counts).—Dec. 26; dawn to dusk. Overcast, with occasional mist and light rain after 10 a.m., becoming a foggy drizzle in p.m.; temp., 29° to 34°; wind variable, 0-7 m.p.h.; ground bare; streams open, ponds partially or completely frozen. Two observers afield together all day; 3 others counting separately at home feeders. Total miles, 60 (55 by car, 5 on foot). Black Duck, 425; Green-winged Teal, 1; Wood Duck, 1; Am. Merganser, 3; Red-shouldered Hawk, 1; Sparrow Hawk, 6; Herring Gull, 63; Ring-billed Gull, 51; Belted Kingfisher, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 6; Blue Jay, 53; Am. Crow, 162; Black-capped Chickadee, 72; White-breasted Nuthatch, 8; Red-breasted Nuthatch, 1; Brown Creeper, 2; Golden-crowned Kinglet, 2; Northern Shrike, 4; Starling, 750 (est.); English Sparrow, 500 (est.); Am. Goldfinch, 115; Slate-colored Junco, 36; Tree Sparrow, 65; Song Sparrow, 2. **Total,** 26 species; about 2333 individuals. The Teal (♂) and Wood Duck (♀) were probably the same (wintering in Forest Park, Springfield) as in the past 2 winters (*Auk* 65: 451). The count of Shrikes is the largest ever noted in one day by A.M.B.—Aaron M. Bagg, Edward P. Bagg III, Helen M. Bagg, Alma Doane, Arthur B. Mitchell.

34. Lynn, Mass. (including Saugus, Nahant, Salem, Beverly, Peabody and parts of Lynnfield, Wakefield, Wenham, and Manchester; sandy beaches, rocky shores, mixed woodland, farms, suburbs and villages).—Dec. 31; 9 a.m. to 4:30 p.m. Clear; temp. 20° to 35°; wind W, 10 m.p.h.; ground bare; ponds partly frozen. Twenty-two observers in 3 parties. Total party-hours, 96; total miles, 103 (95 by auto, 8 on foot). Common Loon, 9; Red-throated Loon, 2; Horned Grebe, 23; European Cormorant, 106; Mallard, 2; Black Duck, 2700±; Greater Scaup Duck, 1300±; Am. Golden-eye, 300; Buffle-head, 1300±; Old-squaw, 125; White-winged Scoter, 1100±; Surf Scoter, 81; Am. Scoter, 54; Am. Merganser, 1; Red-breasted Merganser, 120; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 8; Ring-necked Pheasant, 1; Purple Sandpiper, 81; Sanderling, 6; Iceland Gull, 2 (Iceland, 1; Kumlien's, 1); Great Black-backed Gull, 63; Herring Gull, 15,000± (extraordinary concentration at Lynn); Ring-billed Gull, 2; Mourning Dove, 2; Snowy Owl, 3; Yellow-shafted Flicker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 4; Horned Lark (Northern), 5; Blue Jay, 18; Am. Crow, 35; Black-capped Chickadee, 17; Red-breasted Nuthatch, 1; Eastern Bluebird, 2; Starling, 470; English Sparrow, 75; Eastern Meadowlark, 9; Pine Siskin, 1; Am. Goldfinch, 28; Slate-colored Junco, 71; Tree Sparrow, 16; Song Sparrow, 10; Snow Bunting, 12. **Total,** 46 species (1 additional subspecies); about 23,170 individuals. —Margaret Bradbury, Mr. and Mrs. Herbert B. Brown, Dorothy Caldwell, Bertha M. Davis, Alice E. Hanson, Lee L. Jameson, Louise Jewell, James T. Kelly, Frances C. Lawson, Mr. and Mrs. Henry Lewis, Nason Lightman, Leslie T. Little, Mary McCarthy, Ellen Riggs, L. Raymond Talbot, John H. Tomfohrde, Ruth Woodbury (Brookline Bird Club).

35. Martha's Vineyard, Mass. (Gay Head, Squibnocket, Chilmark, W. Tisbury, and parts of Edgartown and Vineyard Haven; dunes, shoreline, and salt inlets 50%, fresh ponds and marsh 10%, scrub oak and pine 30%, farms, fields, etc., 10%).—Dec. 28; dawn to dusk. Fair; temp. 40° to 50°; wind NW, approx. 25 m.p.h.; ground bare; no water frozen. Twelve observers, 9 in one party and 3 alone. Total hours, 16; total miles, 96 (16 on foot, 80 by car). Common Loon, 15; Red-throated Loon, 5; Horned Grebe, 2; Gannet, 18; European Cormorant, 1; Great Blue Heron, 5; Black-crowned Night Heron, 4; Canada Goose, 517; Mallard, 2; Black Duck, 139; Baldpate, 34; Pintail, 2; Greater Scaup Duck, 25; Lesser Scaup Duck, 55; Am. Golden-eye, 150; Buffle-head, 1; Old-squaw, 43; Harlequin Duck, 12 (11 ♂, 1 ♀); Am. Eider, 58; White-winged Scoter, 65; Am. Scoter, 3; Hooded Merganser, 7; Am. Merganser, 1; Red-breasted Merganser, 18; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 8; Rough-legged Hawk, 14; Marsh Hawk, 8; Peregrine Falcon, 2; Sparrow Hawk, 7; Woodcock, 1 [No details—Ed.]; Sanderling, 25; Great Black-backed Gull, 42; Herring Gull, 2850; Bonaparte's Gull, 27; Mourning Dove, 26; Barn Owl, 1; Snowy Owl, 3; Short-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 23; Downy Woodpecker, 1; Horned Lark (Northern), 6; Blue Jay, 4; Am. Crow, 698; Black-capped Chickadee, 40; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 2; Carolina Wren, 1; Eastern Bluebird, 20; Golden-crowned Kinglet, 4; Cedar Waxwing, 3; Loggerhead Shrike, 1 [Convincing description—Ed.]; Starling, 885; Myrtle Warbler, 139; English Sparrow, 60; Eastern Meadowlark, 24; Am. Goldfinch, 44; Slate-colored Junco, 6; Tree Sparrow, 11; Lincoln's Sparrow, 1 [Mrs. S. Poole. No further details.—Ed.]; Song Sparrow, 20. **Total,** 63 species, about 6196 individuals. (Seen just outside area but on island in count period: Holboell's Grebe, 1; Pied-billed Grebe, 3; European Widgeon, 1 ♂; Surf Scoter, 1; Ruddy Duck, 9; Ring-billed Gull, 1; Dovekie, 7; Robin, 1; Savannah Sparrow, 1.)—J. Bagnulo, J. Brown, F. Bryant, P. Fellows, Mrs. L. French, R. Goodell, S. Highley, W. Leigh, Mrs. S. Poole, Miss D. Purington, R. Smart, Mrs. Mona Worden.

36. Monomoy Point, Mass. (and shoals extending 5 miles south and 8 miles east of Point).—Jan. 2; 10 a.m. to 4 p.m. Overcast, a few spits of rain; temp. 40°; wind SW, very light; ocean smooth and glassy. Boat cruised about 40 miles; 4 miles on foot during 1½ hours at the Point. Common Loon, 126 (mostly in flocks far from land); Gannet, 22; Mallard, 1; Black Duck, 43; Am. Golden-eye, 46; Barrow's Golden-eye, 1 ♂; Old-squaw, 3750; Am. Eider, at least 300,000 (2 main flocks, one on Bearse's Shoal for the past month; the other on Broken Rip Ground 5½ miles southeast of Point); White-winged Scoter, 5175; Am. Scoter, 1600; Sanderling, 6; Great Black-backed Gull, 24; Herring Gull, 1310; Razor-billed Auk, 1; Dovekie, 1; Snowy Owl, 2 (ads.); Am. Crow, 1; Myrtle Warbler, 8; Eastern Meadowlark, 1; Savannah Sparrow, 1; Song Sparrow, 3; Snow Bunting, 3. **Total,** 22 species; at least 312,124 individuals.—Harold Claflin, G. W. Cottrell, Jr., Ludlow Griscom, Henry M. Parker.

37. Mt. Greylock, Mass. (by car from Lanesboro to summit—3491 ft., highest point in Mass.—and several miles farther northwest; on foot to Stony Ledge, Saddle-ball, Mt. Fitch and Mt. Prospect; open country 15%, fir-spruce woods 50%, mixed woods 35%).—Dec. 31; 7:50 a.m. to 3 p.m. Clear, becoming partly cloudy; temp. 10° to 30°; wind W, 0-5 m.p.h.; practically no snow; still water frozen but brooks partly open. Seven observers in 2 parties. Total hours, 12 (10 on foot); total miles, 65 (13 on foot). Ruffed Grouse, 5; Pileated Woodpecker, 1; Downy Woodpecker, 2; Blue Jay, 4; Black-capped Chickadee, 25; Red-breasted Nuthatch, 23+; Brown Creeper, 2; Golden-crowned Kinglet, 13; Northern Shrike, 1 (near base of mt.); Pine Grosbeak, 3; Pine Siskin, 1; White-winged Crossbill, 3; unidentified northern finches, 9. **Total,** 12 species; 92+ individuals.—George Allen, Ted Allen, Mr. and Mrs. Elmore J. Fitz, David Geary, Bartlett Hendricks, Alvah W. Sanborn (Hoffmann Bird Club).

38. Newburyport, Mass. (Plum Island and the Newburys, south to Topsfield, east to Castle Hill, Ipswich, and west to Groveland and the Merrimac River; 11th year in same territory).—Dec. 26; dawn to 5:30 p.m. Cloudy with light drizzle in p.m.; temp. 20° to 50°; wind SE, 8-12 m.p.h.; ground bare; most ponds and streams partly open. Twenty-three observers in 6 parties. Total party-hours, 58; total party-miles, 260 (240 by car, 20 on foot). Common Loon, 40; Red-throated Loon, 18; Horned Grebe, 101; Gannet, 8; Canada Goose, 4; Mallard, 13; Black Duck, 5642; Pintail, 7; Ring-necked Duck, 5; Greater Scaup Duck, 2280; Am. Golden-eye, 311; Buffle-head, 902; Old-squaw, 127; White-winged Scoter, 177; Surf Scoter, 1; Am. Scoter, 13; Am. Merganser, 15; Red-breasted Merganser, 11; Rough-legged Hawk, 1; Bald Eagle, 2; Marsh Hawk, 3; Sparrow Hawk, 7; Ruffed Grouse, 5; Ring-necked Pheasant, 16; Purple Sandpiper, 6; Iceland Gull (Kumlien's), 1; Great Black-backed Gull, 62; Herring Gull, 1470; Ring-billed Gull, 18; Bonaparte's Gull, 225; Dovekie, 2; Mourning Dove, 19; Screech Owl, 1; Snowy Owl, 26 (remarkable count); Barred Owl, 1; Yellow-shafted Flicker, 3; Pileated Woodpecker, 1; Hairy Woodpecker, 5; Downy Woodpecker, 22; Horned Lark (Northern), 5; Blue Jay, 150; Am. Crow, 683; Black-capped Chickadee, 403; White-breasted Nuthatch, 6; Red-breasted Nuthatch, 7; Brown Creeper, 6; Robin, 4; Golden-crowned Kinglet, 11; Northern Shrike, 7; Starling, 2139; Myrtle Warbler, 20; English Sparrow, 119; Eastern Meadowlark, 3; Evening Grosbeak, 70; Purple Finch, 6; Am. Goldfinch, 236; Slate-colored Junco, 80; Tree Sparrow, 305; Song Sparrow, 3; Lapland Longspur, 2; Snow Bunting, 30. **Total,** 61 species; about 15,866 individuals.—D. C. Alexander, Mr. and Mrs. Arthur Argue,

Looking south from the summit of Mt. Greylock, Mass. ***Photograph by Bartlett Hendricks.***

Virginia Armstrong, Mildred Batchelder, Eleanor Barry, Fred Burrill, Katherine Curtis, Dr. William E. Davis, Clara de Windt, Mrs. J. Frank Dubois, Richard J. Eaton, Mr. and Mrs. Maurice Emery, Mr. and Mrs. Elmer P. Foye, Winthrop Harrington, Stuart K. Harris, Dr. and Mrs. Stephen Maddock, Haven Parker, Henry Parker, Cora Wellman.

39. Northampton, Mass. (same circle as in last 15 years; more time than usual given to banks of ice-free Connecticut River).—Dec. 26; 7 a.m. to 3 p.m. Overcast, with occasional mist and light rain after 10 a.m., thickening fog after 12 m.; temp. 27° to 37°; ground bare, water mostly open. Sixty-one observers, 34 at or near their homes, 27 afield in 14 parties, 7 with cars, 7 on foot. [Total hours and miles not stated—Ed.] Mallard, 3; Black Duck, 200±; Am. Golden-eye, 2; Am. Merganser, 70±; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 7; Ruffed Grouse, 10; Ring-necked Pheasant, 18; Woodcock, 1 (Schurr); Wilson's Snipe, 8 (two places); Herring Gull, 18; Horned Owl, 4; Snowy Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 2; Pileated Woodpecker, 2; Hairy Woodpecker, 21; Downy Woodpecker, 83; Horned Lark, 1; Blue Jay, 167; Am. Crow, 410; Black-capped Chickadee, 525±; White-breasted Nuthatch, 80; Red-breasted Nuthatch, 2; Brown Creeper, 7; Hermit Thrush, 1; Eastern Bluebird, 11 (two places); Golden-crowned Kinglet, 10; Ruby-crowned Kinglet, 1 (Coffin); Northern Shrike, 1 (3 others during period); Starling, 1090±; English Sparrow, 630±; Eastern Meadowlark, 1; Evening Grosbeak, 20; Purple Finch, 9; Redpoll, 6; Pine Siskin, 3; Am. Goldfinch, 123; Eastern Towhee, 1 ♂ (at Graves Farm since Dec. 7); Slate-colored Junco, 323; Tree Sparrow, 767; Song Sparrow, 33. **Total,** 44 species; about 4679 individuals. (Seen shortly before or after: Wood Duck, ♂; Cedar Waxwing, 6; Purple Grackle (Bronzed), 1; Brown-headed Cowbird, 3; Vesper Sparrow, 1; Field Sparrow, 1; Fox Sparrow, 2; but no White-throated Sparrows, in contrast to 61 on the 1947 count!)—Mrs. Paul Adams, Mrs. Howard Alcorn, John L. Bagg, Mrs. Malcolm Bagg, Prof. and Mrs. Theodore Baird, L. M. Bartlett, Leo Blizniak, Elizabeth Boyd, Mrs. Hollis Brown, J. E. Cavanagh, Jr., R. M. Clark, R. L. Coffin, E. H. Cotton, Marion DeRonde, Mrs. M. A. Dickinson, Jr., Anne Eliot, S. A. Eliot, Jr., Mr. and Mrs. R. W. Fessenden, R. F. French, Dwight and John Graves, Cora B. Grover, Mrs. R. L. Harris, Mrs. Harry Kidger, A. S. Kinney, Donald LaCroix, Mrs. H. B. Lang, J. J. Madeira, E. A. Mason and family, Mrs. A. J. Miller, Mrs. Wm. Millette, Esther J. Pollard, Mary T. Pomeroy, Samuel Potsubay, G. E. Potter, Mr. and Mrs. D. A. Riedel, Mr. and Mrs. Arthur Ryan, Myra S. Sampson, F. A. Saunders, Marie Schurr, Jane Ann Sessions, Mrs. B. M. Shaub, Mr. and Mrs. E. C. Staples, Mrs. Felix Southiere, Mrs. H. L. Sweetman, Mrs. G. R. Taylor, Wallace Torrey, Mrs. George Tyler, Mrs. Seth Wakeman, G. A. Weeks, Alan Weston, P. L. Wheelock, Mrs. Paul Williams, Alice Woods, Leonard G. Worley.

40. Provincetown, Mass. (north end of Cape Cod, including towns of Truro and Wellfleet).—Dec. 31; 8:30 a.m. to 4:30 p.m. Partly cloudy to clear; temp. 20° to 35°; wind NE to E, moderate; ground bare; marshes partly frozen, fresh-water ponds with some skim ice. Fifteen observers in 3 parties. Total party-hours, 24; total party-miles, 65 (60 by car, 5 on foot). Common Loon, 22; Red-throated Loon, 7; Holboell's Grebe, 2; Horned Grebe, 3; Gannet, 36; European Cormorant, 1; Black-crowned Night Heron, 1; Am. Bittern, 1; Canada Goose, 319; Black Duck, 974; Am. Golden-eye, 685; Barrow's Golden-eye, 1 (L.G.); Bufflehead, 14; Old-squaw, 291; Am. Eider, 21,887; White-winged Scoter, 6075; Surf Scoter, 10; Am. Scoter, 10; Red-breasted Merganser, 63; Red-tailed Hawk, 2; Rough-legged Hawk, 2; Marsh Hawk, 3; Sparrow Hawk, 4; Ring-necked Pheasant, 4; Virginia Rail, 3; Red-backed Sandpiper, 18; Great Black-backed Gull, 99; Herring Gull, 2011; Ring-billed Gull, 31; Razor-billed Auk, 1; Dovekie, 15; Black Guillemot, 2 (C.R.M.); Short-eared Owl, 1; Yellow-shafted Flicker, 31; Horned Lark, 15 (Northern); Blue Jay, 10; Am. Crow, 85; Black-capped Chickadee, 84; Red-breasted Nuthatch, 4; Robin, 28; Eastern Bluebird, 1; Golden-crowned Kinglet, 1; Northern Shrike, 5; Loggerhead Shrike, 1; Starling, 295; Myrtle Warbler, 244; Yellow-throat, 1 (R.S.); English Sparrow, 83; Red-wing, 1; Am. Goldfinch, 15; Savannah Sparrow, 1; Tree Sparrow, 47; White-throated Sparrow, 3; Swamp Sparrow, 2; Song Sparrow, 11; Snow Bunting, 117. **Total,** 56 species, 33,683 individuals. Gulls were surprisingly few in both species and numbers. One marsh contained the Rails, Owl, Yellow-throat and Red-wing. Land birds were (characteristically) much scarcer than in southeastern corner of Cape Cod the next day.—Joseph Bagnulo, James Baird, Jerry Brown, Fred Bryant, Mr. and Mrs. G. W. Cottrell, Clara de Windt, Ludlow Griscom, Seward Highley, Robert Hillman, C. Russell Mason, Nadine Nelson, Mrs. Haven Parker, Henry M. Parker, Robert Smart.

41. Quincy, Mass. (Squantum, Moon Island, Wollaston, Milton, Braintree, Hingham, Hull; shore 60%, salt marsh 10%, open woods and park 25%, residential 5%).—Dec. 26; 7 a.m. to 5 p.m. Overcast, light rain in p.m.; temp. 40°; wind W to SSW, 5-20 m.p.h.; ground bare; water unfrozen. Eleven observers in 4 parties. Total hours, 36; total miles, 101 (16 on foot, 85 by car). Common Loon, 3; Red-throated Loon, 1; Horned Grebe, 6; European Cormorant, 88; Mallard, 2; Black Duck, 467; Gadwall, 1 ♂; Green-winged Teal, 3; Greater Scaup Duck, 4600 (est.); Am. Golden-eye, 1900 (est.); Buffle-head, 81; Old-squaw, 109; White-winged Scoter, 463; Surf Scoter, 38; Am. Scoter, 46; Am. Merganser, 22; Red-breasted Merganser, 238; Sharp-shinned Hawk, 1; Red-tailed Hawk, 2; Sparrow Hawk, 4; Ring-necked Pheasant, 7; Killdeer, 1; Wilson's Snipe, 1; Purple Sandpiper, 3; Sanderling, 3; Great Black-backed Gull, 141; Herring Gull, 12,000 (est.); Ring-billed Gull, 15; Bonaparte's Gull, 2; Screech Owl, 1; Horned Owl, 1; Snowy Owl, 2; Long-eared Owl, 1; Yellow-shafted Flicker, 5; Downy Woodpecker, 6; Blue Jay, 105; Am. Crow, 52; Black-capped Chickadee, 94; White-breasted Nuthatch, 9; Red-breasted Nuthatch, 1; Brown Creeper, 2; Winter Wren, 2; Golden-crowned Kinglet, 1; Northern Shrike, 1; Starling, 20,000 (est. at roost); English Sparrow, 308; Eastern Meadowlark, 6; Red-wing, 1; Evening Grosbeak, 2; Am. Goldfinch, 103; Slate-colored Junco, 66; Tree Sparrow, 104; Field Sparrow, 1; White-throated Sparrow, 1; Song Sparrow, 15. **Total,** 55 species; about 41,238 individuals. (Seen in area Dec. 25, Blue Goose, 1; Dec. 31, Laughing Gull, 1; Jan. 1, Great Blue Heron, 1; Myrtle Warbler, 3; Jan. 2, Short-eared Owl, 3.)—G. Allen, R. Atkinson, R. Bailey, R. Fox, S. Higginbotham, R. K. Kigginbotham, E. Lundin, J. Ulman, D. West, D. Whitehead, G. Wilson.

42. Ware, Mass. (center of town east to Hardwick; south on Ware River to Palmer Airport; north along Muddy Brook to Hardwick Pond; lower and middle Quabbin Reservoir and watershed; town gardens 5%, open farmland 20%; deciduous woodland 5%, pine woodland 10%, marsh 20%, reservoirs and watershed 40%).—Jan. 1; 5 a.m. to 5 p.m. Overcast; temp. 30° to 37°; wind W, 1-7 m.p.h.; ground bare; water lightly frozen in still pools of brooks and river. Twenty observers in 6 parties. Total hours, 52 (42 on foot, 10 by car); total miles, 70 (55 on foot, 15 by car). Mallard, 6; Black Duck, 654; Wood Duck, 5; Hooded Merganser, 10; Am. Merganser, 269; Cooper's Hawk, 1; Red-tailed Hawk, 5; Bald Eagle, 4; Ruffed Grouse, 16; Ring-necked Pheasant, 1; Herring Gull, 362; Horned Owl, 8; Snowy Owl, 1; Belted Kingfisher, 2; Hairy Woodpecker, 13; Downy Woodpecker, 31; Blue Jay, 147; Am. Crow, 160; Black-capped Chickadee, 220; White-breasted Nuthatch, 7; Brown Creeper, 1; Golden-crowned Kinglet, 10; Starling, 601; English Sparrow, 190; Evening Grosbeak, 54; Redpoll, 3; Am. Goldfinch, 41; Slate-colored Junco, 84; Tree Sparrow, 198; Song Sparrow, 1. **Total,** 30 species; 3105 individuals. (Seen in area Dec. 27, Holboell's Grebe, 1.)—L. G. Albertine, L. G. Albertine, Jr., M. E. Albertine, S. T. Berube, W. H. Berube, L. A. Campbell, L. M. Campbell, L S. Campbell, N. Campbell, D. D. Conkey, J. H. Conkey, N. Descoteaux, M. S. Descoteaux, J. Labarre, L. R. Marland, E. Oberg, D. K. Sampson, E. Sampson, M. Thresher, F. Truesdale (Quabbin Bird Club).

43. Little Compton, R. I. (a circle extending west to Easton's beach, Newport; north almost to Tiverton center; and east to the southwestern corner of Dartmouth, Mass.; deciduous woods 20%, farmland 40%, ponds and marshes, 20%, salt water 20%).—Dec. 26; 7 a.m. to 5 p.m. Cloudy, with showers in a.m.; temp. 40° to 55°; wind SE, 15-20 m.p.h.; ground bare; all ponds open. Eight observers in 4 parties. Total party-hours, 35; total party-miles, 180 (162 by car, 18 on foot). Common Loon, 31; Red-throated Loon, 11; Holboell's Grebe, 4; Horned Grebe, 55; Pied-billed Grebe, 4; Gan-

net, 3; European Cormorant, 610; Great Blue Heron, 5; Black-crowned Night Heron, 1; Am. Bittern, 1 (below Adamsville—R.B.); Mute Swan, 1; Canada Goose, 99; Mallard, 15; Black Duck, 191; Baldpate, 310; Pintail, 51; Green-winged Teal, 29; Redhead, 14; Greater Scaup Duck, 126; Lesser Scaup Duck, 2; Am. Golden-eye, 540; Buffle-head, 127; Old-squaw, 6; Am. Eider, 6; King Eider, 1 (in Mass.—R.B.); White-winged Scoter, 242; Surf Scoter, 34; Am. Scoter, 34; Ruddy Duck, 37; Hooded Merganser, 1; Am. Merganser, 21; Red-breasted Merganser, 265; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 18; Ring-necked Pheasant, 4; Black Rail, 1 (at Allen's Pond, Mass.—flushed when 5 ft. from Bowen, and flew past Goodell; both observers, well experienced in identifying rails, recognized it immediately by small size, weak flight, black body, black bill, rusty patches on wings and back); Am. Coot, 110; Purple Sandpiper, 84; Red-backed Sandpiper, 95; Sanderling, 11; Glaucous Gull, 1; Iceland Gull, 1; Great Black-backed Gull, 315; Herring Gull, 1050; Ring-billed Gull, 120; Bonaparte's Gull, 740; Common Kittiwake, 3; Dovekie, 6; Mourning Dove 2; Belted Kingfisher, 3; Yellow-shafted Flicker, 38; Hairy Woodpecker, 1; Downy Woodpecker, 16; Horned Lark (Northern), 45; Blue Jay, 26; Am. Crow, 660; Black-capped Chickadee, 128; White-breasted Nuthatch, 2; Brown Creeper, 5; Long-billed Marsh Wren, 1; Mockingbird, 1; Robin, 2; Eastern Bluebird, 2; Golden-crowned Kinglet, 9; Am. Pipit, 60; Northern Shrike, 3; Starling, 1800; Myrtle Warbler, 140; English Sparrow, 210; Eastern Meadowlark, 61; Red-wing, 3; Purple Grackle (presumably Bronzed), 10; Brown-headed Cowbird, 2; Dickcissel, 1 (present since Nov. 11 at a Tiverton feeder—W.B.D., D.L.K.); Purple Finch, 13; Am. Goldfinch, 76; Ipswich Sparrow, 3; Savannah Sparrow, 15; Vesper Sparrow, 12; Slate-colored Junco, 33; Tree Sparrow, 133; Field Sparrow, 14; White-throated Sparrow, 113; Fox Sparrow, 2; Swamp Sparrow, 8; Song Sparrow, 65; Lapland Longspur, 2; Snow Bunting, 6. **Total,** 93 species; 9171 individuals.—R. Bowen, W. B. Dean, D. L. Emerson, R. Goodell, D. L. Kraus, F. Perry, E. Weeks, C. Wood (R. I. Ornithological Club).

44. Providence, R. I. (west side of Narragansett Bay to Warwick Neck; east side to Rumstick Pt., Barrington; deciduous woods 30%, open and bushy fields 45%, marshes and shore 25%).—Dec. 31; 7 a.m. to 4 p.m. Clear; temp. 40° to 50°; wind NW, 1-10 m.p.h.; ground bare; all ponds open. Ten observers in 4 parties. Total party-hours, 28; total party-miles, 78 (10 on foot, 68 in car). Pied-billed Grebe, 1; European Cormorant, 3; Black-crowned Night Heron, 9; Mallard, 22; Black Duck, 1120; Baldpate, 372; Pintail, 15; Green-winged Teal, 1; Wood Duck, 1; Ring-necked Duck, 5; Greater Scaup Duck, 8000; Am. Golden-eye, 1470; Buffle-head, 136; White-winged Scoter, 90; Hooder Merganser, 3; Am. Merganser, 131; Red-breasted Merganser, 76; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Peregrine Falcon, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 7; Killdeer, 3; Great Black-backed Gull, 34; Herring Gull, 1180; Ring-billed Gull, 10; European Black-headed Gull, 1 (carefully observed by Kraus and Wood; previously seen several times by various observers); Laughing Gull, 1; Bonaparte's Gull, 55; Mourning Dove, 20; Yellow-shafted Flicker, 28; Downy Woodpecker, 7; Horned Lark (Northern), 8; Blue Jay, 53; Am. Crow, 1150; Fish Crow, 30 (none last year); Black-capped Chickadee, 85; White-breasted Nuthatch, 7; Brown Creeper, 2; Robin, 2; Eastern Bluebird, 5; Golden-crowned Kinglet, 7; Cedar Waxwing, 8; Starling, 655; Myrtle Warbler, 192; Yellow-throat, 1; English Sparrow, 130; Purple Finch, 3; Am. Goldfinch, 79; Savannah Sparrow, 17; Slate-colored Junco, 90; Tree Sparrow, 93; Field Sparrow, 1; White-throated Sparrow, 67; Swamp Sparrow, 2; Song Sparrow, 81; Snow Bunting, 10. **Total,** 58 species; 15,584 individuals.—Mr. and Mrs. W. B. Dean, G. Donnelly, D. L. Emerson, C. Gardiner, H. Gibbs, D. L. Kraus, F. Perry, C. Wood, C. G. Wright (R. I. Ornithological Club).

45. South Kingston and Narragansett, R. I. (deciduous woods 20%, brushy fields 30%, open fields 20%, marshes and shore 30%).—Dec. 28; 7 a.m. to 4:30 p.m. Clear; temp. 45° to 40°; wind NW, 1-15 m.p.h.; ground bare and unfrozen; ponds completely open. Sixteen observers on foot and in cars traveling mostly as 1 party. Total party-hours, 12 (8 on foot, 4 in car); total miles, 68 (8 on foot and 60 in car). Common Loon, 23; Red-throated Loon, 29; Horned Grebe, 46; Gannet, 3; European Cormorant, 72; Great Blue Heron, 5; Mallard, 5; Black Duck, 858; Baldpate, 5; Pintail, 1; Redhead, 4; Ring-necked Duck, 18; Canvas-back, 18; Greater Scaup Duck, 240; Lesser Scaup Duck, 100; Am. Golden-eye, 150; Barrow's Golden-eye, 1; Buffle-head, 26; White-winged Scoter, 2; Surf Scoter, 6; Am. Scoter, 7; Ruddy Duck, 51; Hooded Merganser, 1; Am. Merganser, 40; Red-breasted Merganser, 285; Red-tailed Hawk, 4; Bald Eagle, 1; Sparrow Hawk, 4; Red-backed Sandpiper, 8; Sanderling, 4; Great Black-backed Gull, 150; Herring Gull, 500; Ring-billed Gull, 50; Bonaparte's Gull, 125; Razor-billed Auk, 2; Mourning Dove, 4; Belted Kingfisher, 1; Yellow-shafted Flicker, 15; Hairy Woodpecker, 2; Downy Woodpecker, 9; Horned Lark (Northern), 55; Blue Jay, 16; Am. Crow, 42; Black-capped Chickadee, 49; White-breasted Nuthatch, 5; Brown Creeper, 2; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 14; Northern Shrike, 1; Loggerhead Shrike, 1; Starling, 595; Myrtle Warbler, 85; English Sparrow, 135; Eastern Meadowlark, 53; Brown-headed Cowbird, 1; Am. Goldfinch, 9; Eastern Towhee, 1; Savannah Sparrow, 2; Slate-colored Junco, 16; Tree Sparrow, 21; Field Sparrow, 1; White-throated Sparrow, 4; Song Sparrow, 14; Lapland Longspur, 4. **Total,** 65 species; 4002 individuals.—Mrs. F. Caswell, M. Curry, Mrs. A. Davenport, Miss A. Dennis, C. Gates, Mrs. I. Gates, Mrs. E. Hall, Mrs. M.

Heath, Misses N. and T. Higgins, D. L. Kraus, Miss B. Mason, Mrs. E. Parker, Miss M. Sisson, Mr. and Mrs. K. Whaley (Little Rest Bird Club).

46. Hartford, Conn. (Within 7½ miles of city center, as in last 6 years).—Dec. 31; dawn to dusk. Clear; temp. 13° to 30°; wind NNW, gentle in a.m., no wind in p.m.; ground frozen and bare; small ponds frozen, large ponds partly open; Conn. River open, ice moving. Thirty-five observers in 16 parties. Total hours, 87½; total miles, 235½ (156 by car, 79½ on foot). Mallard, 35; Black Duck, 588; Wood Duck, 2 (Mrs. T.R.); Am. Golden-eye, 1; Ruddy Duck, 1 (E.A.B.); Am. Merganser, 289; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 4; Rough-legged Hawk, 2; Bald Eagle, 6; Marsh Hawk, 1; Peregrine Falcon (in downtown Hartford for 6 years), 1; Sparrow Hawk, 15; Ruffed Grouse, 1; Ring-necked Pheasant, 14; Glaucous Gull (Mrs. T.R. and L.J.W.; a great surprise), 1; Great Black-backed Gull (very rare), 2 (miles apart but possibly same bird); Herring Gull, 298; Ring-billed Gull, 37; Mourning Dove, 86; Screech Owl, 4; Snowy Owl, 2; Barred Owl, 5; Long-eared Owl, 4; Short-eared Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 8; Pileated Woodpecker, 2; Hairy Woodpecker, 35; Downy Woodpecker, 94; Horned Lark, 188; Blue Jay, 163; Am. Crow, 1981; Black-capped Chickadee, 494; White-breasted Nuthatch, 80; Brown Creeper, 20; Robin, 3; Hermit Thrush, 2; Eastern Bluebird, 35; Golden-crowned Kinglet, 7; Ruby-crowned Kinglet, 1; Cedar Waxwing, 25; Northern Shrike, 4; Starling, 1081; Myrtle Warbler, 34; English Sparrow, 674; Eastern Meadowlark, 6; Red-wing, 81; Evening Grosbeak, 13; Purple Finch, 78; Pine Siskin, 7; Am. Goldfinch, 110; Eastern Towhee, 1; Slate-colored Junco, 228; Tree Sparrow, 430; Field Sparrow, 14; White-throated Sparrow, 11; Swamp Sparrow, 8; Song Sparrow, 101; Snow Bunting, 2. **Total,** 61 species (highest Christmas count ever taken here); 7428 individuals. A Winter Wren known to be in the area was missed. The Glaucous Gull may be only the 4th record for Conn. One was just north of the state line, Dec. 4-8.—Mr. and Mrs. Sigmund Adler, Mrs. Herbert Austin, Mrs. Warren Ball, Fred Bashour, Mr. and Mrs. Robert Belden, Mr. and Mrs. E. A. Bergstrom, Joslyn Deeks, Percy Fellows, Mr. and Mrs. Leonard French, Robert Goodell, Mrs. Leslie Goodrich, Priscilla Hollister, George Joseph, Ralph Keirstead, Ruth Larson, Harold Liebe, E. Allan Maines, Daniel MacDavid, John O'Brien, G. Hapgood Parks, Doris Purinton, Mrs. Thomas Rhines, Mrs. Robert Risley, Thomas Shires, Clifford Snow, Ruth Spaulding, Maurice Tourison, Edwin Wadstrom, Lee J. Whittles, James Woodson, John Woodson.

47. New Haven, Conn. (same area as last year; harbor and Sound 25%, ponds and rivers 20%, upland deciduous woods 15%, bottomland deciduous woods 10%, pine woods 5%, fields and fence-rows 15%, marsh 10%, plus 2 feeding stations).—Dec. 26; 5:30 a.m. to 5 p.m. Cloudy; temp. 34° to 49°; wind up to 8 m.p.h.; ground bare; water open. Nine observers in 3 parties. Total hours, 32; total miles, 85 (60 by car, 25 on foot). Red-throated Loon, 2; Horned Grebe, 1; Pied-billed Grebe, 2; European Cormorant, 1; Mallard, 62; Black Duck, 435; European Widgeon, 2 ♂ (C.E.H., R.A.P., L.M.); Baldpate, 114; Ring-necked Duck, 10; Scaup Duck, 11,400 (est., mostly Greater); Am. Golden-eye, 170; Old-squaw, 11; White-winged Scoter, 28; Ruddy Duck, 34; Am. Merganser, 1; Red-breasted Merganser, 9; Red-tailed Hawk, 4; Marsh Hawk, 1; Sparrow Hawk, 5; Great Black-backed Gull, 22; Herring Gull, 1200 (est.); Ring-billed Gull, 200 (est.); Bonaparte's Gull, 70; Snowy Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 1; Hairy Woodpecker, 8; Downy Woodpecker, 17; Horned Lark (Northern), 2; Blue Jay, 36; Am. Crow, 328; Black-capped Chickadee, 94; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 2; Brown Creeper, 2; Winter Wren, 1; Starling, 431; Myrtle Warbler, 1; English Sparrow, 231; Red-wing, 63; Am. Goldfinch, 9; Slate-colored Junco, 38; Tree Sparrow, 137; Field Sparrow, 6; White-throated Sparrow, 25; Swamp Sparrow, 17; Song Sparrow, 24. **Total,** 47 species; about 15,266 individuals.—Irston R. Barnes, Mrs. James Black, Alfred R. Bellinger, Peter Bellinger, Mrs. William H. Dunham, Jr., Charles E. Huntington, Erwin B. Kelsey, Lawrence Murphy, Raymond A. Paynter, Jr.

48. Oxford, Conn. (Quaker Farms to Stevenson, to Squantuck and back; brush-land 50%, open land 15%, woodland 20%, river front 15%.)—Dec. 31; 8:15 a.m. to 4 p.m. Clear, no snow; temp. 14° to 30°; wind NW, 0-7 m.p.h.; Housatonic River open; ponds mostly ice-skimmed. Total hours, 7¾; total miles, 13 (on foot). Red-tailed Hawk, 1; Ruffed Grouse, 2; Herring Gull, 24; Belted Kingfisher, 2; Yellow-shafted Flicker, 2; Hairy Woodpecker, 5; Downy Woodpecker, 7; Blue Jay, 44; Am. Crow, 12; Black-capped Chickadee, 87; White-breasted Nuthatch, 5; Winter Wren, 3; Hermit Thrush, 1; Eastern Bluebird, 5; Golden-crowned Kinglet, 3; Starling, 19; Myrtle Warbler, 76; English Sparrow, 29; Am. Goldfinch, 2; Slate-colored Junco, 29; Tree Sparrow, 45; Song Sparrow, 2. **Total,** 22 species; 405 individuals.—Alfred P. Harger.

49. Saybrook, Conn. (same area as last year; Sound and bays 30%, rivers and ponds 15%, beach 10%, marsh 5%, fields and fence-rows 20%, residential 5%, upland woods 10%, swamp 5%).—Dec. 27; 6 a.m. to 4:30 p.m. Cloudy; dense fog throughout day, with visibility generally limited to less than 100 yds.; temp. 38° to 45°; ground bare; water open. Two observers together. Total hours, 10½; total miles, 48 (40 by car; 8 on foot). Red-throated Loon, 1; Horned Grebe, 3; Black Duck, 4; Greater Scaup Duck, 3; Am. Golden-eye, 12; Buffle-head, 4; White-winged Scoter, 6; Am. Merganser, 2; Red-breasted Merganser, 17; Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Spar-

row Hawk, 2; Ruffed Grouse, 1; Ring-necked Pheasant, 1; Purple Sandpiper, 1; Great Black-backed Gull, 9; Herring Gull, 99; Ring-billed Gull, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 3; Downy Woodpecker, 5; Western Kingbird, 1 (watched at 30 ft. for 20 minutes, eating wahoo berries; present in Westbrook area since Dec. 3); Blue Jay, 5; Am. Crow, 5; Black-capped Chickadee, 14; Winter Wren, 1; Eastern Bluebird, 20; Starling, 182; Myrtle Warbler, 37; English Sparrow, 24; Eastern Meadowlark, 2; Purple Finch, 3; Am. Goldfinch, 2; Savannah Sparrow, 1; Slate-colored Junco, 6; Tree Sparrow, 87; White-throated Sparrow, 6; Swamp Sparrow, 1; Song Sparrow, 17. **Total,** 39 species; 592 individuals.—Irston R. Barnes, Charles E. Huntington.

50. Waterbury, Conn. (from Hancock Brook to Fulton and Lakewood parks to small sections of Chestnut Hill and Woodtick reservoirs to Wolcott Center to Long Hill; mixed conifers 50%, park areas 25%, woodland 15%, open land 10%).—Dec. 31; 7:45 a.m. to 4:15 p.m. Clear to slightly cloudy late in day; temp. 14° to 25° to 36°; no wind to little from NE 1-7 m.p.h.; ground bare; ice on all ponds except sections of Chestnut Hill Reservoir, Lakewood, and Hancock Brook. Four observers in 2 parties of 2 each, then in 1 party. Total hours, 8½; total miles, 20 (14 by car, 6 on foot). Hairy Woodpecker, 3; Downy Woodpecker, 2; Blue Jay, 20; Am. Crow, 33; Black-capped Chickadee, 49; White-breasted Nuthatch, 2; Brown Creeper, 1; Golden-crowned Kinglet, 3; Starling, 51; English Sparrow, 39; Purple Finch, 6; Pine Siskin, 11; Am. Goldfinch, 5; Slate-colored Junco, 29; Tree Sparrow, 29; Field Sparrow, 5. **Total,** 16 species; 288 individuals. (Horned Owl, Dec. 21, reported by local hunter; Cooper's Hawk and Song Sparrow, Dec. 28, JM.; Herring Gull, Jan. 2.)—Edith Rogers, Beverly Slack, Florence Turnbull, John Maskiewicz (Waterbury Naturalist Club).

51. Westport, Conn. (including parts of New Canaan, Wilton, Weston, Easton and Fairfield; shore from Great Marsh, Norwalk, to Fairfield Beach; reservoirs in Easton and Weston; sanctuaries in New Canaan and Fairfield; open fields 10%, woodlands 15%, town suburbs 15%, inland waters 15%, Long Island Sound and shore 45%).—Dec. 31; 7 a.m. to 5:20 p.m. Clear; temp. 20° to 38° to 25°; wind NW, calm to 5 m.p.h.; ground bare; small ponds frozen, larger ponds and reservoirs open. Twenty-two observers in 7 parties until 9 a.m., then in 2 parties. Total hours, 34 (18 on foot, 16 in cars); total miles, 178 (20 on foot, 158 by car). Common Loon, 1; Red-throated Loon, 6; Horned Grebe, 4; European Cormorant, 5; Double-crested Cormorant, 1 (in group with European Cormorants, studied with good binoculars; smaller size and difference in throat pouch observed.—R.G., B.F.); Great Blue Heron, 6; Black-crowned Night Heron, 1; Mute Swan, 13; Canada Goose, 1; Mallard, 33; Black Duck, 139; Pintail, 2; Ring-necked Duck, 70; Greater Scaup Duck, 1762 (1500 est., 262); Am. Golden-eye, 155; Buffle-head, 85; Old-squaw, 130; White-winged Scoter, 2339 (1500 est., 839); Surf Scoter, 5; Am. Scoter, 2; Ruddy Duck, 1; Hooded Merganser, 2; Am. Merganser, 74; Red-breasted Merganser, 51; Cooper's Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 2; Sparrow Hawk, 3; Ruffed Grouse, 2; Ring-necked Pheasant, 1; Killdeer, 2; Black-bellied Plover, 5; Great Black-backed Gull, 20; Herring Gull, 2000 (est.); Ring-billed Gull, 63; Laughing Gull, 2; Rock Dove, 3 (essentially wild birds, living in an abandoned barn); Mourning Dove, 3; Barred Owl, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 9; Hairy Woodpecker, 7; Downy Woodpecker, 16; Horned Lark, 53 (48 Northern, 5 Prairie); Blue Jay, 31; Am. Crow, 51; Black-capped Chickadee, 43; Tufted Titmouse, 2; White-breasted Nuthatch, 10; Red-breasted Nuthatch, 5; Brown Creeper, 5; Carolina Wren, 1; Mockingbird, 2; Robin, 4; Eastern Bluebird, 8; Golden-crowned Kinglet, 11; Starling, 75; Myrtle Warbler, 4; English Sparrow, 55; Eastern Meadowlark, 3; Cardinal, 6; Purple Finch, 9; Pine Siskin, 12; Am. Goldfinch, 96; Savannah Sparrow, 1; Slate-colored Junco, 45; Tree Sparrow, 65; White-throated Sparrow, 11; Fox Sparrow, 2; Swamp Sparrow, 2; Song Sparrow, 12. **Total,** 71 species (1 additional subspecies); about 7656 individuals.—L. J. Bradley, L. H. Bregy, R. L. Burdsall, Mr. and Mrs. M. F. Brown, Mrs. C. Brown, Mr. and Mrs. S. E. Brown, Mrs. S. Evans, B. Ficke, R. Gauthey, Mr. and Mrs. E. Leaycraft, R. Lemmon, Mrs. H. Long, F. Novak, R. E. Patten, Miss J. Quineau, Miss M. A. Roberts, R. Smyth, P. C. Spofford, Miss S. Tate (Westport Audubon Society).

52. Amagansett to Watermill, L. I., N. Y. (ocean beach and dunes, shore of Gardiner's Bay and Northwest Harbor, farmlands, scrub and thickets, oak and pine woodland, coastal ponds and fields within 15-mile diameter).—Dec. 31; 5:45 a.m. to 5 p.m. Clear; temp. 22° to 28°; wind NW to W, 12 m.p.h., to less than 1 at dusk; all ponds partly frozen, smaller ones entirely so. Eleven observers in 4 parties. Total hours, 50¾; total miles, 221 (34 on foot, 187 by car). Common Loon, 47; Red-throated Loon, 151; Holboell's Grebe, 1; Horned Grebe, 11; Pied-billed Grebe, 10; Gannet, 181 (85 est., 96); European Cormorant, 1; Double-crested Cormorant, 24; Great Blue Heron, 19; Mute Swan, 275 (140 est., 135); Whistling Swan, 1; Canada Goose, 1950 (1200 est., 750); Mallard, 165; Black Duck, 4627 (3100 est., 1527); Gadwall, 1; Baldpate, 196; Pintail, 190; Green-winged Teal, 18; Redhead, 22; Ring-necked Duck, 152 (80 est., 72); Canvas-back, 127; Greater Scaup Duck, 207; Lesser Scaup Duck, 27 (20 est., 7—all Scaup Ducks not reasonably well identified as Lesser Scaups assumed to be Greater); Am. Golden-eye, 148; Buffle-head, 41; Old-squaw, 84; Eider (sp.), 1 ♀; White-winged Scoter, 306; Surf Scoter, 32; Am. Scoter, 3; unidentified scoters, 550 est.; Ruddy Duck, 484; Hooded Merganser, 2; Am. Merganser, 44; Red-breasted Merganser, 69; Sharp-shinned Hawk, 1; Marsh Hawk, 9; Peregrine Falcon, 2; Sparrow Hawk, 12;

Ring-necked Pheasant, 1; Virginia Rail, 3; Am. Coot, 427 (100 est., 327); Killdeer, 15; Wilson's Snipe, 2; Semipalmated Sandpiper, 1; Sanderling, 1; Great Black-backed Gull, 268 (100 est., 168); Herring Gull, 3398 (1870 est., 1528); Ring-billed Gull, 171 (100 est., 71); Bonaparte's Gull, 1; Common Kittiwake, 1; Dovekie, 6 (plus 3 dead ones); Black Guillemot, 1 (J.B.M., C.W., W.T.H.—seen in flight and resting upon water with 4 Dovekies); Rock Dove, 6 (living under wild conditions); Mourning Dove, 4; Barn Owl, 1; Screech Owl, 2; Snowy Owl, 3 (fragments of a recently killed specimen); Short-eared Owl, 3; Belted Kingfisher, 6; Yellow-shafted Flicker, 41; Hairy Woodpecker, 1; Downy Woodpecker, 4; Horned Lark, 333 (250 est., 83); Blue Jay, 49; Am. Crow, 143; Black-capped Chickadee, 29; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 1; Brown Creeper, 2; Mockingbird, 1; Catbird, 5; Brown Thrasher, 1; Robin, 7; Hermit Thursh, 2; Eastern Bluebird, 1; Golden-crowned Kinglet, 9; Cedar Waxwing, 1; Northern Shrike, 7; Starling, 3826 (3470 est., 356); Myrtle Warbler, 585 (390 est., 195); English Sparrow, 497 (400 est., 97); Eastern Meadowlark, 68; Red-wing, 11; Purple Grackle, 1; Brown-headed Cowbird, 9; Purple Finch, 7; Am. Goldfinch, 86; Eastern Towhee, 6; Savannah Sparrow, 15; Vesper Sparrow, 1; Slate-colored Junco, 77; Tree Sparrow, 125; Field Sparrow, 11; White-throated Sparrow, 73; Fox Sparrow, 10; Swamp Sparrow, 65; Snow Bunting, 16. **Total,** 97 species; about 20,639 individuals. (Seen on Jan. 2, Brant, 2; Cooper's Hawk, 1; Knot, 1; Razor-billed Auk, 1).—W. O. Astle, R. B. Fischer, W. T. Helmuth, W. Lidecker, D. MacKenzie, J. B. Mayer, W. B. Sabin, G. D. Scott, Jr., T. K. Scott, F. P. Shepard, Jr., C. Wright.

53. Brooklyn, N. Y. (Prospect Park, Shore Road, Dyker Beach Park, Coney Island, Sheepshead Bay to Plum Beach, Bergen Beach, Canarsie Park, New Lots Marshes, Cross Bay Blvd., Jamaica Bay, Rockaway Peninsula to Jetty at Rockaway Point, also Highland Park, Reservoir, and Forest Park; open woodland 20%, ocean beach 20%, salt marsh and sheltered bay 40%, dry fields 20%).—Dec. 26; 7:30 a.m. to 5 p.m. Overcast with showers, clearing at 11:30 a.m., partly cloudy in p.m.; temp. 32° to 48° to 40°; wind SE, 4-15 m.p.h. Twenty-four observers in 10 parties. Total hours, 60 (43 on foot, 17 by car); total miles, 40 (26 on foot, 14 by car); 2 parties in cars checked assigned areas. Common Loon, 4; Holboell's Grebe, 3; Horned Grebe, 2; Double-crested Cormorant, 1; Great Blue Heron, 1; Mallard, 6; Black Duck, 462; Green-winged Teal, 2; Canvas-back, 6; Greater Scaup Duck, 6152; Lesser Scaup Duck, 3; Am. Golden-eye, 120; Buffle-head, 20; Old-squaw, 1; Hooded Merganser, 1; Am. Merganser, 1; Red-breasted Merganser, 532; buteo (sp.), 1; Marsh Hawk, 6; Sparrow Hawk, 13; Clapper Rail, 1; Killdeer, 44; Purple Sandpiper, 18; Red-backed Sandpiper, 16; Sanderling, 84; Great Black-backed Gull, 211; Herring Gull, 17,129 (12,000 est., 5129); Ring-billed Gull, 129; Laughing Gull, 1; Bonaparte's Gull, 213; Rock Dove (feral), 700; Mourning Dove, 2; Screech Owl, 1; Snowy Owl, 4; Short-eared Owl, 2; Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 6; Horned Lark, 4; Blue Jay, 6; Am. Crow, 16; Black-capped Chickadee, 35; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 1; Brown Creeper, 1; Robin, 5; Am. Pipit, 14; Myrtle Warbler, 5; Starling, 2338 (22,000 estimated in 2 roosts within census area during previous week; roosts not checked on day of count); English Sparrow, 729 (57,000 estimated to be present within count area); Eastern Meadowlark, 1; Red-wing, 33; Brown-headed Cowbird, 25; Cardinal, 3; Purple Finch, 1; Am. Goldfinch, 3; Ipswich Sparrow, 2; Savannah Sparrow, 19; Sharp-tailed Sparrow, 2; Slate-colored Junco, 76; Tree Sparrow, 19; Field Sparrow, 1; White-throated Sparrow, 18; Fox Sparrow, 1; Swamp Sparrow, 3; Song Sparrow, 23; Snow Bunting, 6. **Total,** 67 species; about 26,228 individuals. —M. Bloom, P. Busch, J. Cavanaugh, R. Clermont, E. Feldhusen, D. Fleukiger, C. Gillespie, A. Jones, L. Jones, H. Kiechlin, D. Kreissman, I. Laskowitz, C. Meyerdierks, J. McGarraghy, J. Murphy, J. Neilson, J. Romano, J. Soll, J. Sterling, E. Swayer, H. Thelen, H. Ward, E. Whelen, A. Wrede (Brooklyn Bird Club).

54. Montauk, L. I., N. Y. (Lighthouse to Ft. Pond, omitting Reed Pond area; Hither Hills State Park, Napeague, Lazy Pt., Promised Land, shore of Gardiner's Bay west to Devon, Beach Hampton; rocky ocean beach, sandy beach and dunes, salt marsh, oak-pine woods, kettle-hole thickets, fresh, brackish, and salt ponds).—Jan. 1; 8 a.m. to 5:15 p.m. Cloudy, occasional fine rain or sleet; temp. 26° to 24°; wind SW to SE, 6-12 m.p.h.; almost all fresh water frozen. Ten observers in 3 parties. Total hours, 23¾; total miles, 190 (28 on foot, 162 by car). Common Loon, 51; Red-throated Loon, 85; Gannet, 39; Black Duck, 1; Scaup Duck (probably Greater), 45; Am. Golden-eye, 146 (60 est., 86); Buffle-head, 56; Old-squaw, 140 (60 est., 80); Am. Eider, 1 (almost ad. ♂); King Eider, 4; White-winged Scoter, 275 (60 est., 215); Surf Scoter, 250 (100 est., 150); Am. Scoter, 126 (90 est., 36); unidentified scoters, 2818 (2800 est., 18); Ruddy Duck, 1; Red-breasted Merganser, 275; Goshawk, 1 (ad., well seen soaring over oak woods—W.T.H., G.D.S., Jr., T.K.S., J.A.S.); Cooper's Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 6; Sparrow Hawk, 7; Am. Coot, 65; Iceland Gull, 1 (imm., standing on ice with Black-backed, Herring, and Ring-billed Gulls—W.T.H., G.D.S.,Jr., T.K.S., J.A.S.); Great Black-backed Gull, 189 (50 est., 139); Herring Gull, 2878 (2100 est., 778); Ring-billed Gull, 47; Bonaparte's Gull, 1212 (1000 est., 212); Rock Dove, 6 (not "farmyard" birds); Snowy Owl, 1 (W.D., Mrs. W.D., R.H.G.); Short-eared Owl, 3; Yellow-shafted Flicker, 4; Am. Crow, 29; Black-capped Chickadee, 16; Golden-crowned Kinglet, 3; Northern Shrike, 4; Starling, 1352 (1200 est., 152); Myrtle Warbler, 265 (200 est., 65); Palm Warbler (Western), 1; English Sparrow, 6; Eastern Meadowlark, 7; Am. Goldfinch, 2; Tree Sparrow,

51; White-throated Sparrow, 4; Fox Sparrow, 1; Song Sparrow, 11. **Total,** 44 species; 10,487 individuals.—Mrs. W. Dawn, W. Dawn, R. B. Fischer, R. H. Grant, W. T. Helmuth, W. Lidecker, D. MacKenzie, G. D. Scott, Jr., T. K. Scott, J. A. Sussman.

[Gilbert S. Raynor took a count in this same area on Dec. 26 and recorded 2388 individuals of 40 species. He noted the following species which were not found on the above count: Horned Grebe, 9; Hooded Merganser, 5; Virginia Rail, 1; Sanderling, 1; Razor-billed Auk, 1; Dovekie, 7; Downy Woodpecker, 1; and Horned Lark (Northern), 16.—Ed.]

55. Quoque to Watermill, L. I., N. Y. (no duplication with Amagansett count)—Dec. 24; 6:50 a.m. to 5 p.m. Clear; temp. 26° to 28°; wind NW, moderate; all bays and ponds open. Three observers together. Total miles, 66 (60 by car, 6 on foot). Comon Loon, 2; Red-throated Loon, 3; Horned Grebe, 3; Pied-billed Grebe, 5; Gannet, 117; Great Blue Heron, 25; Am. Bittern, 1; Mute Swan, 38; Canada Goose, 631; Mallard, 177; Black Duck, 2350 (est.); Baldpate, 46; Pintail, 86; Green-winged Teal, 15; Redhead, 11; Ring-necked Duck, 69; Canvas-back, 72; Scaup Duck (sp.), 1630 (est).; Am. Golden-eye, 218; Buffle-head, 44; Old-squaw, 47; White-winged Scoter, 827; Surf Scoter, 4; Am. Scoter, 236; Ruddy Duck, 75; Hooded Merganser, 2; Am. Merganser, 20; Red-breastedMerganser, 303; Cooper's Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 10; Am. Coot, 150; Black-bellied Plover, 1; Wilson's Snipe, 15; Sanderling, 57; Great Black-backed Gull, 27; Herring Gull, 1515 (est.); Ring-billed Gull, 30; Bonaparte's Gull, 1; Dovekie, 1; Barn Owl, 1; Snowy Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 6; Downy Woodpecker, 2; Blue Jay, 2; Am. Crow, 57; Black-capped Chickadee, 9; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 1; Brown Creeper, 2; Brown Thrasher, 1; Northern Shrike, 1; Starling, 333; Myrtle Warbler, 111; English Sparrow, 22; Eastern Meadowlark, 52; Am. Goldfinch, 44; Savannah Sparrow, 1; Grasshopper Sparrow, 1 (studied carefully under good conditions at a distance of 25 ft.—L.W.); Slate-colored Junco, 11; Tree Sparrow, 11; Field Sparrow, 6; White-throated Sparrow, 1; Swamp Sparrow, 1; Song Sparrow, 25. **Total,** 67 species; about 9576 individuals.—Arthur Cooley, Bruce Federico, LeRoy Wilcox.

56 Smithtown, L. I., N. Y. (T. J. White estate, Nissequogue River, Short and Long beaches, Stony Brook harbor, and Old Field point; marsh 30%, fields 10%, wooded swamps 25%, woods 10%, shore 25%).—Dec. 27; 4:45 a.m. to 4:55 p.m. Light rain until 7:30 a.m., clear by 10 a.m.; temp. 38° at start, 50° (max.) at 2 p.m.; visibility good; all ponds ice free; ground bare. Four observers working singly and together. Total miles, 74 (60 by car, 14 on foot); [total hours not stated—Ed.]. Common Loon, 2; Red-throated Loon, 2; Horned Grebe, 8; Pied-billed Grebe, 1; Double-crested Cormorant, 1; Great Blue Heron, 3; Black-crowned Night Heron, 37; Mute Swan, 8; Canada Goose, 34; Mallard, 56; Black Duck, 800 (est.); Gadwall, 2; Baldpate, 8; Green-winged Teal, 3; Ring-necked Duck, 1; Greater Scaup Duck, 6; Am. Golden-eye, 475; Old-squaw, 800 (est.); King Eider, 1 (ad. ♂ studied at 150 yds. by all); White-winged Scoter, 1000; Surf Scoter, 25; Ruddy Duck, 3; Hooded Merganser, 6; Am. Merganser, 21; Red-breasted Merganser, 300 (est.); Cooper's Hawk, 1; Red-shouldered Hawk, 1; Ring-necked Pheasant, 7; Clapper Rail, 32; Am. Coot, 6; Black-bellied Plover, 1; Great Black-backed Gull, 65; Herring Gull, 1600 (est.); Ring-billed Gull, 72; Mourning Dove, 1; Screech Owl, 1; Horned Owl, 1; Long-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 15; Horned Lark (Northern), 35; Blue Jay, 40; Am. Crow, 101; Fish Crow, 8; Black-capped Chickadee, 55; White-breasted Nuthatch, 10; Red-breasted Nuthatch, 1; Winter Wren, 10; Carolina Wren, 1 (singing); Long-billed Marsh Wren, 3; Catbird, 3; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 36; Golden-crowned Kinglet, 7; Cedar Waxwing, 23; Starling, 12; Myrtle Warbler, 25; English Sparrow, 23; Red-wing, 3; Rusty Blackbird, 2; Brown-headed Cowbird, 12; Purple Finch, 39; Am. Goldfinch, 22; Savannah Sparrow, 2; Slate-colored Junco, 75; Tree Sparrow, 63; White-throated Sparrow, 135 (est.); Fox Sparrow, 3; Swamp Sparrow, 9; Song Sparrow, 54. **Total,** 73 species; about 6227 individuals.—Richard B. Fischer, Grier Ralston, Robert Ralston, Walton Sabin.

57. Southern Nassau County, L. I., N. Y. (Atlantic Beach east to Jones Beach, north to Garden City and Westbury; circle centered at Baldwin; open ocean 40%, suburban development 35%, beaches, bays, tidal marsh 15%, parks, farms, woodland 10%).—Jan. 2; 6 a.m. to 11:58 p.m. Cloudy, occasional light showers; temp. 43° to 48°; no wind; ground bare, ponds 50% ice-free but water levels very low following drought. Fifty-five observers in 10 parties. Total hours, 95 (61 on foot, 26 by car, 8 by boat); total miles, 461 (85 on foot, 360 by car, 16 by boat). Common Loon, 13; Red-throated Loon, 54; Horned Grebe, 38; Pied-billed Grebe, 9; Gannet, 7; Double-crested Cormorant, 11; Great Blue Heron, 39; Black-crowned Night Heron, 80; Am. Bittern, 3; Mute Swan, 12; Canada Goose, 62; Mallard, 412; Black Duck, 4205 (3300±200, 905); Gadwall, 14; European Widgeon, 4; Baldpate, 578; Pintail, 318; Green-winged Teal, 129; Shoveller, 20; Wood Duck, 2; Ring-necked Duck, 1; Canvas-back, 2; Greater Scaup Duck, 427; Am. Golden-eye, 73; Old-squaw, 2; White-winged Scoter, 23; Am. Scoter, 2; Ruddy Duck, 1; Hooded Merganser, 9; Am. Merganser, 53; Red-breasted Merganser, 94; Sharp-shinned Hawk, 6; Cooper's Hawk, 5; Red-tailed Hawk, 1; Red-shouldered Hawk, 3; Rough-legged Hawk, 1; Marsh Hawk, 8; Sparrow Hawk, 28; Bob-white, 7; Clapper Rail, 4; Am. Coot, 21; Killdeer, 19; Black-bellied Plover, 11; Wilson's Snipe, 2; Greater Yellow-legs, 1; Purple Sandpiper, 45; Red-backed Sandpiper, 24;

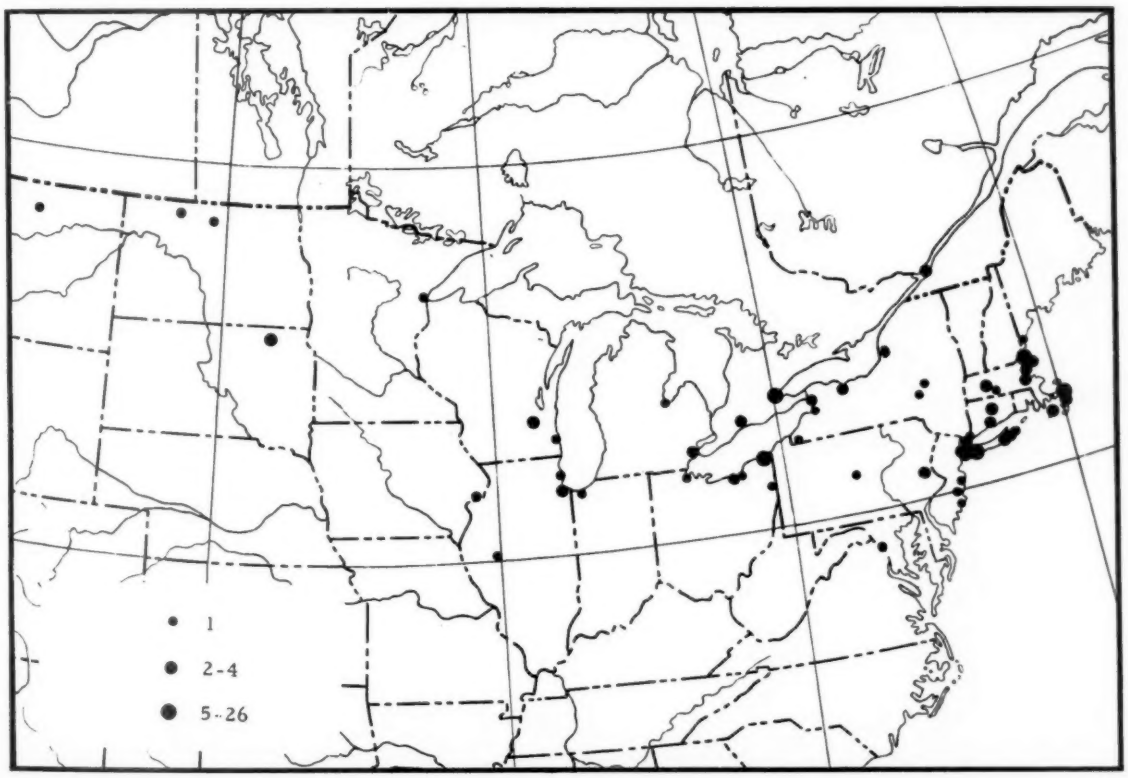
Sanderling, 96; Great Black-backed Gull, 574; Herring Gull, 8970 (8500±500, 470); Ring-billed Gull, 131; Mourning Dove, 16; Barn Owl, 1; Screech Owl, 4; Snowy Owl, 6; Long-eared Owl, 5; Short-eared Owl, 6; Belted Kingfisher, 8; Yellow-shafted Flicker, 14; Downy Woodpecker, 38; Horned Lark, 232 (230 Northern, 2 Prairie); Blue Jay, 240; Am. Crow, 165; Fish Crow, 1 (heard and seen at close range—R.A., R.W.B.); Black-capped Chickadee, 166; White-breasted Nuthatch, 17; Red-breasted Nuthatch, 6; Brown Creeper, 11; Winter Wren, 2; Catbird, 5; Robin, 7; Hermit Thrush, 5; Olive-backed Thrush, 1 (eye-ring and all field marks carefully noted—G.H.P.) [no further convincing details furnished—Ed.]; Eastern Bluebird, 10; Golden-crowned Kinglet, 6; Ruby-crowned Kinglet, 2; Am. Pipit, 2; Cedar Waxwing, 36; Loggerhead Shrike, 1; Starling, 5561 (4350±150, 1211); Black and White Warbler, 1 (watched at distance of 8 ft. for several minutes—J.A., G.G., T.P.); Myrtle Warbler, 837; English Sparrow, 960; Eastern Meadowlark, 106; Red-wing, 18; Purple Grackle, 7; Brown-headed Cowbird, 17; Cardinal, 6; Evening Grosbeak, 1; Purple Finch, 11; House Finch, 33; Am. Goldfinch, 177; Eastern Towhee, 1; Ipswich Sparrow, 5; Savannah Sparrow, 16; Charp-tailed Sparrow, 6; Seaside Sparrow, 6; Vesper Sparrow, 3; Slate-colored Junco, 372; Tree Sparrow, 529; Chipping Sparrow, 3; Field Sparrow, 31; White-throated Sparrow, 135; Fox Sparrow, 12; Swamp Sparrow, 32; Song Sparrow, 240; Snow Bunting, 6. **Total,** 107 species (1 additional subspecies); about 26,799 individuals. (Also Dovekie, found dead, 26; on offshore trip, outside limits of circle, Ryan added Gannet, 25; Common Kittiwake, 1; Brünnich's Murre, 2; Dovekie, 48.)—Irwin Alperin, Jerry Amari, Robert Arbib, Jr., Mrs. E. Arthur, Dr. and Mrs. B. C. Berliner, Robert W. Berliner, Andrew Bihun, Jr., Bill Brooks, Mr. and Mrs. John Bull, Jr., Miss E. Campbell, Geoffrey Carleton, Edward Costich, Guy Coheleach, Harry Darrow, Eugene Eisenmann, John J. Elliott, John Emory, Robert Ficken, Westan Fowler, Herman Goebel, George Greller, Robert Griswold, Mrs. Charles Hegeman, Charles Hegeman, Jr., A. Jacoby, Malcolm Jacobson, Dr. and Mrs. Heathcote Kimball, Bob Lewis, John Mayer, Mrs. H. Meinke, Robert Mitchell, Edmund Morgan, Herman Muller, George H. Peters, Ted Pettit, Mr. and Mrs. James Ritchie, Mrs. Richard Ritzman, Richard Ritzman, Jr., George Rose, Richard Ryan, Mrs. James Sector, Walter Sedwitz, Richard Sloss, Edwin Stabler, Mrs. E. Stevens, H. Sullivan, Mr. and Mrs. Edwin W. Teale, Mr. and Mrs. Max Weyl, John Zrybko.

58. Western Long Island, N. Y. (15-mile circle: Flushing Bay to North Hills, Whitestone to Atlantic Beach; suburban New York City, 30%, Atlantic Ocean coast 5%; coastal marshes 15%, fresh water 5%, deciduous woods 10%, evergreen woods 5%, open woods 30%).—Dec. 26; 5 a.m. to 6:15 p.m. Cloudy, light rain in mid-morning; temp. 46° to 54°; wind S, moderate in a.m. to fresh in p.m.; all ponds open. Twenty-nine observers in 15 parties. Total hours, 125; total miles, 262 (107 on foot, 143 by car, 12 by bicycle). Common Loon, 16; Holboell's Grebe, 1; Horned Grebe, 2; Pied-billed Grebe, 10; Gannet, 2; Double-crested Cormorant, 7; Great Blue Heron, 10; Black-crowned Night Heron, 58; Mute Swan, 14; Mallard, 770 (480 est., 290); Black Duck, 4428 (3775 est., 653); Gadwall, 8; European Widgeon, 10; Baldpate, 781 (430 est., 351); Pintail, 64; Green-winged Teal, 173; Shoveller, 4; Wood Duck, 2; Ring-necked Duck, 5; Canvas-back, 781; Greater Scaup Duck, 6029 (4950 est., 1079); Lesser Scaup Duck, 11; Am. Golden-eye, 370 (320 est., 50); Buffle-head, 131; Old-squaw, 3; White-winged Scoter, 65; Surf Scoter, 3; Ruddy Duck, 21; Hooded Merganser, 20; Am. Merganser, 207; Red-breasted Merganser, 348 (320 est., 28); Sharp-shinned Hawk, 2; Cooper's Hawk, 2; Red-tailed Hawk, 11; Red-shouldered Hawk, 3; Rough-legged Hawk, 1; Marsh Hawk, 11; Sparrow Hawk, 28; Ring-necked Pheasant, 24; Clapper Rail, 9; Virginia Rail, 1; Am. Coot, 4; Killdeer, 73; Black-bellied Plover, 9; Wilson's Snipe, 3; Greater Yellow-legs, 4; Purple Sandpiper, 31; Red-backed Sandpiper, 10; Sanderling, 59; Great Black-backed Gull, 89; Herring Gull, 18,942 (11,000 est., 7942); Ring-billed Gull, 83; Laughing Gull, 2 (seen in area throughout season); Bonaparte's Gull, 1; Mourning Dove, 13; Barn Owl, 3; Screech Owl, 4; Snowy Owl, 1; Long-eared Owl, 1; Short-eared Owl, 1; Saw-whet Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 21; Hairy Woodpecker, 5; Downy Woodpecker, 47; Horned Lark, 83; Blue Jay, 174; Am. Crow, 384; Fish Crow, 2; Black-capped Chickadee, 344 (235 est., 109); White-breasted Nuthatch, 24; Brown Creeper, 8; Winter Wren, 1; Long-billed Marsh Wren, 8; Catbird, 3; Robin, 7; Hermit Thrush, 1; Eastern Bluebird, 20; Golden-crowned Kinglet, 1; Am. Pipit, 3; Cedar Waxwing, 1; Starling, 2702 (2380 est., 322); Myrtle Warbler, 132; English Sparrow, 520 (365 est., 155); Eastern Meadowlark, 7; Red-wing, 4; Rusty Blackbird, 1; Purple Grackle, 16; House Finch, 3; Pine Siskin, 1; Am. Goldfinch, 166; Eastern Towhee, 5; Ipswich Sparrow, 1; Savannah Sparrow, 36; Sharp-tailed Sparrow, 1; Seaside Sparrow, 3; Vesper Sparrow, 19; Slate-colored Junco, 469 (285 est., 184); Tree Sparrow, 303 (65 est., 238); Field Sparrow, 43; White-throated Sparrow, 307 (160 est., 147); Fox Sparrow, 5; Swamp Sparrow, 7; Song Sparrow, 244 (175 est., 69); Lapland Longspur, 1; Snow Bunting, 3. **Total,** 106 species; about 39,919 individuals. (A freshly killed Dovekie found on the beach by M.F. and R.K. was not included in count.)—Richard H. Adelson, Elizabeth Astle, Mr. and Mrs. William O. Astle, William R. Astle, Herman L. Bohn, Michael Fitzgerald, John W. Flavin, Jr., Charles Friedle, Herman Goebel, Mrs. E. K. Jockers, Edwin Kirchmeier, Richard Koeppel, William Lidicker, Lewis Litwin, John Mayer, Robert McCabe, Andrew Meyerreicks, Robert Meyerreicks, Mr. and Mrs. William W. Reid, William W. Reid, Jr., Arthur Skopec, Frank B. Smithe, F. Norton Smithe, Herbert Stein, Allen Walker, Charles F. Wright, Sam Yeaton (Queens County Bird Club).

59. Bear Mountain, Harriman State Park, N. Y. (Bear Mountain and Iona Island south to Jones Point and west to Route 17, entire park area); deciduous woods 30%, coniferous woods 15%, open fields 30%, swamps 15%, river 5%, lakes 5%).—Dec. 26; 7 a.m. to 5 p.m. Cloudy; light to heavy fog; temp. 39° at start, 49° at finish; wind S, 6-26 m.p.h.; ground bare; ice on most lakes and ponds. Eight observers in 4 parties. Total hours, 39; total miles, 148 (122 by car, 26 on foot). Mallard, 8; Black Duck, 174; Baldpate, 1; Am. Golden-eye, 4; Am. Merganser, 19; Peregrine Falcon, 2; Ruffed Grouse, 8; Herring Gull, 56; Ring-billed Gull, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 5; Downy Woodpecker, 8; Blue Jay, 3; Am. Crow, 28; Black-capped Chickadee, 82; White-breasted Nuthatch, 6; Long-billed Marsh Wren, 1; Robin, 2; Hermit Thrush (singing), 1; Golden-crowned Kinglet, 2; Starling, 83; English Sparrow, 99; Red-wing, 8; Brown-headed Cowbird, 1; Am. Goldfinch, 8; Slate-colored Junco, 76; Tree Sparrow, 215; Song Sparrow, 4. **Total,** 28 species; 906 individuals.—Eugene Brown, Robert Deed, Stanley Grierson, John Kenney, Peter Smith, Fred Ulmer, Arthur Weeks, John Orth.

60. Bronx-Westchester Region, N. Y. (northern Bronx and southern Westchester Counties as far as Irvington, Scarsdale, and Rye).—Dec. 26; [starting and stopping time not indicated—Ed.] Cloudy, occasional rain; temp. 44° to 58°; wind S, light; ground bare; all water open. Thirty-eight observers in 7 parties. Total hours, 66 (15 by car, 51 on foot); total miles, 58 (18 by car, 40 on foot). Common Loon, 5; Red-throated Loon, 4; Holboell's Grebe, 1; Horned Grebe, 3; Pied-billed Grebe, 2; European Cormorant, 2 (seen through high-powered telescope—A.C., R.H.; present every winter); Great Blue Heron, 13; Black-crowned Night Heron, 17; Canada Goose, 85; Snow Goose, 1 (second time in 26 years—R.F., G.R., R.R.); Mallard, 372 (previous high, 269); Black Duck, 2570 (est.); Baldpate, 12; Pintail, 4; Green-winged Teal, 10; Wood Duck, 2; Ring-necked Duck, 3 (rare in this area); Canvas-back, 117; Greater Scaup Duck, 10,000 (est.); Am. Golden-eye, 710; Buffle-head, 67 (twice any previous number); Old-squaw, 47; White-winged Scoter, 320; Am. Scoter, 2; Ruddy Duck, 17; Hooded Merganser, 23; Am. Merganser, 30; Red-breasted Merganser, 145; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 13; Red-should-

Snowy Owls were recorded on 58 Christmas Counts this year. A comparison with the map on page 22 of the 46th Christmas Bird Count issue (March-April 1946) shows a striking similarity to the distribution of this species during the last big flight year, four years ago. Due to better coverage in 1949 the number of individuals reported increased from 91 to 145, and the number of Snowy Owls per census rose from 2.3 to 2.5.



ered Hawk, 5; Rough-legged Hawk, 2; Sparrow Hawk, 20; Ring-necked Pheasant, 43; Virginia Rail, 1; Killdeer, 47 (previous high, 38); Purple Sandpiper, 65 (equals previous high); Iceland Gull, 1; Great Black-backed Gull, 63 (previous high, 46); Herring Gull, 10,330 (est.); Ring-billed Gull, 10; Laughing Gull, 1; Rock Dove, 110 (only wild birds counted); Mourning Dove, 23; Barn Owl, 1; Screech Owl, 2; Snowy Owl, 4 (equals previous high); Barred Owl, 1; Long-eared Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 12; Yellow-shafted Flicker, 13; Hairy Woodpecker, 23; Downy Woodpecker, 77; Horned Lark (Northern), 1; Blue Jay, 300; Am. Crow, 175; Black-capped Chickadee, 455 (est.); Tufted Titmouse, 3; White-breasted Nuthatch, 69; Red-breasted Nuthatch, 3; Brown Creeper, 6; Winter Wren, 9; Long-billed Marsh Wren, 3; Robin, 10; Eastern Bluebird, 21; Golden-crowned Kinglet, 4; Am. Pipit, 1; Cedar Waxwing, 32; Starling, 2350 (est.); Myrtle Warbler, 134; Palm Warbler (Western), 2 (new to census—Solomon); English Sparrow, 445 (est.); Eastern Meadowlark, 22; Red-wing, 213 (previous high, 120); Cardinal, 6; Purple Finch, 7; Pine Siskin, 1; Am. Goldfinch, 225; Eastern Towhee, 7 (previous high, 5); Savannah Sparrow, 10; Sharp-tailed Sparrow, 2; Vesper Sparrow, 3; Slate-colored Junco, 910 (est.); Tree Sparrow, 760 (est.); Field Sparrow, 105 (previous high, 88); White-throated Sparrow, 210; Fox Sparrow, 2; Swamp Sparrow, 15; Song Sparrow, 220. **Total,** 91 species; about 32,199 individuals.—Mr. and Mrs. J. Bull, I. Cantor, A. Cruickshank, H. Darrow, G. Dock, Jr., Mrs. E. Eagan, E. Eisenmann, W. Ephraim, W. Feigin, R. Fischer, H. Forster, R. Herbert, J. Hickey, E. Karlin, R. Kesner, J. Kieran, G. Komorowski, D. and R. Lehrman, A. Milch, W. Norse, J. Orenstein, Mr. and Mrs. J. Philips, G. and R. Ralston, D. Roche, M. Russak, W. Sabin, W. Seetoo, W. Solomon, J. Stegle, A. Thomas, W. Weber, Miss I. Werner, A. and H. Young.

61. Buffalo, N. Y. (centering on Grand Island; including Niagara River and adjacent areas; open farmland 40%, deciduous woods 20%, parks 5%, Niagara River and Buffalo Harbor 20%, cattail marshes 3%, city, suburban, and industrial areas 12%).—Dec. 26; 6 a.m. to 7 p.m. Intermittent showers during a.m., overcast at noon, heavy to light rains throughout p.m.; temp. 40° to 50° F.; wind S-SW, 10-20 m.p.h.; ground too wet and soft for efficient covering of territories by foot, some of the smaller roads impassable by car; ice on Buffalo Creek, other rivers and streams open, gorge below falls open. Fifty-eight observers in 16 parties. Total hours, 133; total miles, 570 (79 on foot, 490 by car, 1 by boat). Common Loon, 3; Horned Grebe, 3; Pied-billed Grebe, 5 (B.N.—2nd record in 21 counts); Great Blue Heron, 2; Black-crowned Night Heron, 9; Mallard, 352; Black Duck, 1486 (300, 350, 450 est., 386); Gadwall, 1 (E.L.S.); Baldpate, 9; Pintail, 30; Green-winged Teal, 3 (E.L.S.); Wood Duck, 1 (E.L.S.—2nd record in 21 counts); Redhead, 6; Canvas-back, 2519 (500, 2000 est., 19); Greater Scaup Duck, 1337 (300, 900 est., 137); Lesser Scaup Duck, 15 (B.N., H.H.A., R.C.A.); Am. Golden-eye, 4885 (350, 2300, 1000, 300 est., 935); Buffle-head, 71; Old-squaw, 201; King Eider, 1 (J.S., T.L.B.—♀, seen under excellent conditions, 2nd record in 21 counts); White-winged Scoter, 5; Ruddy Duck, 1 (J.A.C.); Hooded Merganser, 8; Am. Merganser, 1301 (450, 500 est., 351); Red-breasted Merganser, 127; Red-tailed Hawk, 12; Rough-legged Hawk, 7; Bald Eagle, 2 (C.W.); Marsh Hawk, 11; Sparrow Hawk, 51; Ring-necked Pheasant, 94; Glaucous Gull, 1; Iceland Gull, 1 (B.N.); Great Black-backed Gull, 45; Herring Gull, 3414 (2000, 400, 200, 400 est., 414); Ring-billed Gull, 295; Black-headed Gull, 1 (E.L.S. and party—imm., observed for 30 min. at 200 ft. with 34X telescope, 1st Buffalo record); Bonaparte's Gull, 2223 (1700 est., 523); Rock Dove, 4 (wild); Mourning Dove, 48; Screech Owl, 2; Horned Owl, 7; Snowy Owl, 4; Long-eared Owl, 3; Short-eared Owl, 10; Belted Kingfisher, 5; Yellow-shafted Flicker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 24; Blue Jay, 44; Am. Crow, 141; Black-capped Chickadee, 248; White-breasted Nuthatch, 29; Red-breasted Nuthatch, 1; Brown Creeper, 28; Robin, 4; Golden-crowned Kinglet, 7; Northern Shrike, 4; Starling, 2047 (200, 250, 600, 200 est., 797); English Sparrow, 2328 (300, 500, 200, 300, 100, 350 est., 578); Eastern Meadowlark, 1; Red-wing, 1; Cardinal, 16; Purple Finch, 3 (H.H.A., R.C.A.); Am. Goldfinch, 4; Savannah Sparrow, 1 (E.L.S.—singing, 1st record in 21 counts); Slate-colored Junco, 53; Tree Sparrow, 521; Field Sparrow, 3 (H.H.A., R.C.A.—1st record in 21 counts); Song Sparrow, 11. **Total,** 70 species; about 24,143 individuals. (Seen in area within 5 days of count: Am. Scoter, Kumlien's Gull, Little Gull, Cedar Waxwing, Pine Siskin.)—William H. Almendinger, Robert F. Andrle, Harold H. Axtell, Rachel C. Axtell, Claude R. Bishop, Thomas L. Bourne, Mr. and Mrs. Arthur C. Brettle, Dorothy Brettle, Winston W. Brockner, Richard Byron, Mr. and Mrs. James A. Creighton, Mary Louise Emerson, Dr. and Mrs. Karl F. Eschelman, Elizabeth Faul, Donald Frederick, John Filor, Donald J. Gamble, Mr. and Mrs. R. Gardner Griffin, David Griffin, Axel Heilborn, Allen Kemnitzer, Walter Klabunde, Harriette Klabunde, Philip Klabunde, Clayton Knox, Wilmer H. Koch, Mercedeth Lovelace, Carolina deLeeuw, Henry MacIntyre, Robert A. MacIntyre, W. Ray McCann, Ethel Melberg, Harold D. Mitchell, Bernard Nathan, Frances M. Rew, Wheeler M. Rogerson, Richard Rosche, James Savage, Arthur Schaffner, Edward L. Seeber, Paul Sutor, Florence Tryon, Edward C. Ulrich, Alice Ulrich, William C. Vaughan, Robert Wagner, Mr. and Mrs. William Wallace, Margaret Wendling, Marie Wendling, Lorina M. Wendt, Ellen J. Windsor, Irwin Woldman, Cyril Wolfling (Buffalo Ornithological Society).

62. Cooperstown, N. Y. (area roughly a triangle from Cooperstown north-northeast along the east side of Lake Otsego to East Springfield 11

miles, west along Route 20 to Richfield Springs 9 miles and southeast along west side of Lake Canadarago to Cooperstown 11 miles; fresh water 22%, coniferous woods 10%, deciduous woods 28%, active farms 15% and deserted farms and pasture 25%).—Jan. 1; 8 a.m. to 4 p.m., 7:30 to 9:30 p.m. Cloudy; temp. 32° to 35°; wind SW, 1-5 m.p.h.; very light and patchy snow cover; Lake Otsego open, all other water frozen. Total observer hours, 18; total miles, 50 (45 by auto, 5 on foot). Common Loon, 1; Mallard, 4; Black Duck, 62; Am. Golden-eye, 79; Buffle-head, 1; White-winged Scoter, 1; Hooded Merganser, 4; Am. Merganser, 144; Sparrow Hawk, 1; Ruffed Grouse, 1; Herring Gull, 9; Bonaparte's Gull, 1 (well studied with 20X scope, 1st winter record locally); Horned Owl, 2; Snowy Owl, 1; Saw-whet Owl, 1; Belted Kingfisher, 2; Pileated Woodpecker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 6; Blue Jay, 5; Am. Crow, 1; Black-capped Chickadee, 27; White-breasted Nuthatch, 4; Red-breasted Nuthatch, 1; Brown Creeper, 1; Northern Shrike, 2; Starling, 15; English Sparrow, 12; Tree Sparrow, 6; Song Sparrow, 1. **Total,** 30 species; 393 individuals. (The combination of a mild and open winter to date and excellent weather conditions for observation on the day of the coun. produced a completely unprecedented total of species and individuals.)—Dr. and Mrs. Norman P Hill.

63. Corinth, N. Y. (Jenny Lake and environs, elevation of 1180 ft. in Adirondack State Park; mixed deciduous and evergreen woods, with minimum of open land).—Dec. 25; 8 a.m to 4 p.m. Clear; temp. 10° to 20°; no wind; traces of old snow; running streams open, lake frozen. Total hours, 8; total miles, 8 (on foot). Ruffed Grouse, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Blue Jay, 3; Black-capped Chickadee, 12; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 5; Brown Creeper, 1; Golden-crowned Kinglet, 3; Evening Grosbeak, 4; Pine Grosbeak, 4; Pine Siskin, 1; Am. Goldfinch, 1. **Total,** 13 species; 38 individuals.—Barrington S. Havens.

64. Cortland, N. Y. (Tioughnioga River, south end of Skaneateles Lake, Gracie Swamp, marl ponds, and waterworks; lakes, ponds, river 10%, cultivated farmland 10%, semiopen country, frequently pastured, with scattered trees, open groves, little patches of woods and thickets of many kinds, litte bogs, marshy places, streams and other habitats in small scattered patches 50%, mixed woodland, mostly unpastured and swampy, from young second growth to mature 30%).—Jan. 1; 7 a.m. to 6 p.m. Cloudy with occasional light showers of snow or rain; temp. 33° to 36°; wind S, 0-10 mp.h.; 1-in. fresh snow on ground at dawn, melted by noon; marl ponds and creek in waterworks nearly dry and mostly frozen, other waters open. Two observers in 2 parties. Total hours, 17 (14 on foot, 3 by car); total miles, 61 (12 on foot, 49 by car). Pied-billed Grebe, 2; Great Blue Heron, 1; Canada Goose, 1; Mallard, 26; Black Duck, 95; Pintail, 3; Ring-necked Duck, 15; Greater Scaup Duck, 45; Am. Golden-eye, 99; Buffle-head, 2; Am. Merganser, 14; Sparrow Hawk, 2; Ruffed Grouse, 1; Ring-necked Pheasant, 10; Herring Gull, 33; Ring-billed Gull, 3; Mourning Dove, 5; Screech Owl, 3; Belted Kingfisher, 1; Downy Woodpecker, 9; Blue Jay, 11; Am. Crow, 14; Black-capped Chickadee, 83; White-breasted Nuthatch, 8; Red-breasted Nuthatch, 2; Brown Creeper, 11; Winter Wren, 1; Robin, 1; Hermit Thrush, 1; Golden-crowned Kinglet, 5; Starling, 103; English Sparrow, 48; Pine Siskin, 29; Am. Goldfinch, 3; Slate-colored Junco, 2; Tree Sparrow, 66; Field Sparrow, 7; Song Sparrow, 9; Snow Bunting, 1. **Total,** 39 species; 775 individuals.—Harold H. Axtell, Rachel C. Axtell.

65. Croton Point, N.Y. (habitat the same as in 1947 and 1948. Woods 50%, cattail marshes 30%, shore 15%, fields 5%).—Dec. 24; 7:10 a.m. to 5 p.m. Clear; temp. 20° to 42° to 30°; light NW wind ended by noon; no snow on ground or ice on rivers. Observers together, total miles 10 (8 afoot, 2 by car). Great Blue Heron, 1; Black-crowned Night Heron, 1; Mallard, 21; Black Duck, 250 (est.); Pintail, 2; Canvas-back, 53; Greater Scaup Duck, 10; Am. Golden-eye, 7; Am. Merganser, 9; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Bald Eagle, 3; Great Black-backed Gull, 3; Herring Gull, 400 (est.); Mourning Dove, 6; Barred Owl, 1; Saw-whet Owl, 2; Yellow-shafted Flicker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 6; Blue Jay, 2; Am. Crow, 8; Black-capped Chickadee, 4; White-breasted Nuthatch, 3; Brown Creeper, 4; Golden-crowned Kinglet, 7; Starling, 500 (est.); English Sparrow, 18; Red-wing, 4; Cardinal, 5; Am. Goldfinch, 1; Slate-colored Junco, 14; Tree Sparrow, 59 (est.); White-throated Sparrow, 11; Swamp Sparrow, 3; Song Sparrow, 13. **Total,** 37 species; about 1441 individuals.—Richard B. Fischer, Charles Jacob, Jack Moyer, David Ridgway.

[Malcolm S. Gordon and Maurice N. Richter, Jr. took a count in this same area on Jan. 1 and recorded 4470 individuals of 31 species in 7¼ hours. They noted the following species that were not found on the above count: Rough-legged Hawk, 2; Sparrow Hawk, 1; Barred Owl, 2; Belted Kingfisher, 2; Robin, 1; Hermit Thrush, 1; and Ruby-crowned Kinglet, 1.)—Ed.]

66. Fort Plain, N.Y. (Mohawk River, valleys of Oak, Eisenlord, Otsquene and Otsquago creeks; mixed deciduous and coniferous woods 28%, river swamps and flats 36%, open farmland 36%).—Dec. 31; 7:30 a.m. to 6:30 p.m. Fair; temp. 8° to 22°; wind SE, 1-5 m.p.h.; ground bare; much drifting ice in river, creeks flowing over the ice. Total hours, 11; total miles, 13 (on foot). Mallard, 7; Black Duck, 7; Am. Merganser, 25; Buteo (sp.), 1; Ruffed Grouse, 2; Ring-necked Pheasant, 12; Herring Gull, 11; Horned Owl, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 2; Downy Wood-

pecker, 2; Am. Crow, 8; Black-capped Chickadee, 38; White-breasted Nuthatch, 1; Starling, 200; English Sparrow, 137; Common Redpoll, 1; Am. Goldfinch, 1; Tree Sparrow, 21; Song Sparrow, 1. **Total,** 20 species; 470 individuals. (Seen in area Dec. 11, Snowy Owl, 1; Dec. 30, Yellow-shafted Flicker, 1.)—Douglas Ayres, Jr.

67. Geneva, N.Y. (area bounded by Junius on north, west side of Cayuga Lake on east, Kashong on south, and Pre-Emption road on west; open farmland 50%, town suburbs 10%, mixed woods 25%, lake 15%).—Dec. 26, 8 a.m. to 5 p.m. Cloudy with intermittent rain; temp. 40° to 50°; wind S, strong; ground bare; water open. Sixteen observers in 8 parties (4 observers watched feeding stations). Total hours, 30½ (18½ on foot, 12 by car); total miles, 118 (16 on foot, 102 by car). Horned Grebe, 15; Pied-billed Grebe, 1; Canada Goose, 11; Mallard, 112; Black Duck, 410; Redhead, 4500 (est.); Ring-necked Duck, 11; Canvas-back, 16; Greater Scaup Duck, 2800 (est.); Lesser Scaup Duck, 100; Am. Golden-eye, 65; Buffle-head, 20; Old-squaw, 3; Hooded Merganser, 2; Am. Merganser, 20; Red-breasted Merganser, 8; Cooper's Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 5; Ring-necked Pheasant, 6; Am. Coot, 1025; Great Black-backed Gull, 1; Herring Gull, 37; Ring-billed Gull, 7; Mourning Dove, 4; Long-eared Owl, 1; Yellow-shafted Flicker, 1; Hairy Woodpecker, 8; Downy Woodpecker, 14; Horned Lark (Prairie), 2; Blue Jay, 2; Am. Crow, 73; Black-capped Chickadee, 48; White-breasted Nuthatch, 8; Red-breasted Nuthatch, 1; Brown Creeper, 3; Robin, 1; Golden-crowned Kinglet, 3; Northern Shrike, 2; Starling, 75; English Sparrow, 106; Cardinal, 4; Am. Goldfinch, 3; Slate-colored Junco, 29; Tree Sparrow, 43; Song Sparrow, 16. **Total,** 46 species; 9624 individuals. (Snowy Owl seen on Dec. 25, Mockingbird on Dec. 27).—Foster L. Gambrell, John Wellington, Fred Hartzell, S. R. Schieb, Loren D. Ward, Lansing Hoskins, Jr., Mr. and Mrs. William P. Van Eseltine, Ethel M. Murden, Leora N. Dryer, C. Sealey Peck, Jason Walker, Mrs. Frank McGuire, Mr. and Mrs. O. F. Fanson, Anna L. Burdus (Eaton Bird Club).

68. Hamburg-Orchard Park-East Aurora, N.Y. (centering on Chestnut Ridge and including Emery Park; open farmland 60%, public parks 10%, suburban areas 5%, deciduous woods 15%, evergreen woods 4%, cattail marsh 1%, small ponds and 1 mile of Lake Erie shore 5%).—Jan. 1; 8 a.m. to 5 p.m. Showers, cloudy; temp. 39° to 45°; wind S, 3-9 m.p.h; streams open, thin layer of ice on ponds. Forty observers in 15 parties. Total hours, 87½; total miles, 627½ (81½ by foot). Mallard, 3; Am. Golden-eye, 8; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 5; Marsh Hawk, 2; Sparrow Hawk, 12; Ruffed Grouse, 3; Ring-necked Pheasant, 49; Herring Gull, 14; Ring-billed Gull, 1; Mourning Dove, 4; Snowy Owl, 1; Long-eared Owl, 2; Yellow-shafted Flicker, 1; Pileated Woodpecker, 5; Hairy Woodpecker, 16; Downy Woodpecker, 50; Horned Lark (Prairie), 7; Blue Jay, 177; Am. Crow, 119; Black-capped Chickadee, 369; White-breasted Nuthatch, 30; Red-breasted Nuthatch, 10; Brown Creeper, 20; Robin, 1; Hermit Thrush, 1; Golden-crowned Kinglet, 36; Ruby-crowned Kinglet, 1; Cedar Waxwing, 20; Northern Shrike, 4; Starling, 997; English Sparrow, 1368; Eastern Meadowlark, 1; Cardinal, 14; Pine Siskin, 58; Am. Goldfinch, 21; Red Crossbill, 2; Slate-colored Junco, 148; Tree Sparrow, 596; Song Sparrow, 6; Snow Bunting, 1. **Total,** 42 species; about 4185 individuals. (Seen in area on Dec. 31, Common Redpoll, 1.)—W. Almendinger, R. F. Andrle, Mrs. A. Bacon, J. Braunberns, Mr. and Mrs. A. Brettle, Mrs. A. Broadbent, J. Creighton, Dr. and Mrs. W. D. Dugan, S. Dugan, M. Dugan, P. Dugan, Mr. and Mrs. K. Eschelman, Mr. and Mrs. W. Burch, D. R. Frederick, Mr. and Mrs. G. Griffin, D. Griffin, Mr. and Mrs. A. Heilborn, K. Heilborn, E. Jones, C. T. Knox, Mr. and Mrs. W. McShane, H. D. Mitchell, B. Nathan, H. Nowicki, F. G. Rew, F. M. Rew, R. C. Rosche, E. Seeber, Mr. and Mrs. E. Ulrich, A. Wander, W. Wild, E. J. Windsor, I. Woldman, A. J. Wright, II (Buffalo Audubon Society).

69. Jamestown, N. Y. (center of town north to Gerry, east to Poland, south to Riverside; deciduous woods 29%, coniferous woods 11%, mixed deciduous and coniferous woods 17%, swampland 6%, fields 17%, streams and rivers 8%, marshes 4%, city suburbs 8%).—Dec. 27; 7 a.m. to 5:15 p.m. Cloudy with occasional showers totaling about ¼ in.; temp. 33° to 50°; wind SW, 5-20 m.p.h.; ground bare; most water completely open. Seven observers in 4 parties. Total hours, 23 (14 on foot, 9 by car); total miles, 73 (29 on foot, 44 by car). Sharp-shinned Hawk, 2; Rough-legged Hawk, 1; Sparrow Hawk, 3; Ruffed Grouse, 1; Ring-necked Pheasant, 3; Herring Gull, 138 (est.); Ring-billed Gull, 1; Snowy Owl 1 (seen at long range in tree near large marsh—C.B., R.A.S., R.H.S.); Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 6; Blue Jay, 14; Black-capped Chickadee, 86; White-breasted Nuthatch, 8; Red-breasted Nuthatch, 13; Brown Creeper, 11; Ruby-crowned Kinglet, 1 (satisfactorily identified; regular visitor at feeder in Jamestown; still present Jan. 8—Mrs. G.S.); Starling, 611; Yellow-throat, 1 (seen and heard in large marsh—R.A.S., R.H.S.); English Sparrow, 325; Brown-headed Cowbird, 2; Cardinal, 5; Evening Grosbeak, 18 (seen and heard in Jamestown—P.L., D.P.); Common Redpoll, 1; Pine Siskin, 50; Am. Goldfinch, 7; Slate-colored Junco, 55; Tree Sparrow, 95; Swamp Sparrow, 2; Song Sparrow, 6. **Total,** 30 species; about 1469 individuals. (Seen in area during count period: Cooper's Hawk, 1; Pileated Woodpecker, 1; Common Redpoll, 150 (est.).—C. Beal, Robert Beatty, P. Lenna, D. Powers, G. Simms, R. A. Sundell, R. H. Sundell, Mrs. G. Sundin.

70. Keuka Park, N. Y. (north end of Keuka Lake and lake front south to cedar grove about 6 miles from head of lake, Keuka College woodlot

and farmland, Penn Yan to Dresden on Seneca Lake and 2 miles south along lake shore; Branchport, head of west branch of Keuka Lake, south 2 miles to "Chasm-Lodge," Guyanoga valley and "Friend-Potter" woods, Pinnacle hill and adjoining woods and pastures; marshland, open farmland and hill pastures, second-growth deciduous woods, a cedar grove, and lakefront).—Dec. 31, 8 a.m. to 5 p.m. Clear; temp. 16° to 38°; no wind. Twelve observers, one pair on foot, rest in 3 cars. Total hours, about 55 (30 on foot, 25 in cars); total miles, 70 (25 on foot, 45 by car). Common Loon, 2; Horned Grebe, 23; Mallard, 10; Black Duck, 248; Redhead, 2000; Ring-necked Duck, 5; Canvas-back, 320; Greater Scaup Duck, 500; Lesser Scaup Duck, 200; Am. Golden-eye, 112; Buffle-head, 4; Hooded Merganser, 1; Am. Merganser, 20; Red-breasted Merganser, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Rough-legged Hawk, 1; Sparrow Hawk, 4; Ruffed Grouse, 1; Ring-necked Pheasant, 8; Killdeer, 6; Herring Gull, 35; Ring-billed Gull, 11; Mourning Dove, 5; Screech Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 3; Downy Woodpecker, 16; Hairy Woodpecker, 4; Blue Jay, 30; Am. Crow, 39; Black-capped Chickadee, 112; White-breasted Nuthatch, 14; Red-breasted Nuthatch, 5; Brown Creeper, 4; Eastern Bluebird, 1; Northern Shrike, 1; Starling, 200; English Sparrow, 200; Cardinal, 6; Pine Grosbeak, 1; Pine Siskin, 65; Am. Goldfinch, 104; Slate-colored Junco, 45; Tree Sparrow, 126; Swamp Sparrow, 1; Song Sparrow, 9. **Total,** 47 species; about 4508 individuals.—Frank Guthrie, Robert Guthrie, Malcolm Lerch, Isora Lerch, Carl Lerch, Francis Orcutt, Charles Spiker, Ed. Bingham, Mabel Bingham, Mr. and Mrs. Henry Sutherland, Vireo Whittaker (Keuka Park Conservation Club).

71. Manhattan Island, N.Y. (Inwood, Fort Tryon, Isham, Central, Riverside, Triboro, Bryant, Battery, and Madison Square parks, Trinity and St. Paul's churchyards, 125th St. ferry and Starling roost, Bedloe's Island, Harlem River Speedway, and ferries in the upper bay).—Dec. 31; [starting and stopping time not indicated—Ed.] Clear; temp. 30° (min.) to 38° (max.); wind N, 3-9 m.p.h.; ground bare, frozen; 72nd St. lake frozen but all other water open. Ten observers in 7 parties. Total hours, 46 (2½ by boat, 43½ on foot); total miles, 58 (17 by boat, 41 on foot). Common Loon, 1; Mallard, 62; Black Duck, 212; Greater Scaup Duck, 9; Am. Golden-eye, 37; Surf Scoter, 3; Am. Merganser, 12; Red-breasted Merganser, 1; Peregrine Falcon, 4; Sparrow Hawk, 1; Killdeer, 1; Glaucous Gull, 1 (bay ferry, observer previously familiar with species—R.R.); Great Black-backed Gull, 56; Herring Gull, 2757 (250 est., 2507); Ring-billed Gull, 75; Black-headed Gull, 2 (bay ferry, observer previously familiar with species—R.R.); Laughing Gull, 4; Bonaparte's Gull, 29; Kittiwake, 1 (imm., apparently crippled and almost unable to fly, observer previously familiar with species—R.R.) Rock Dove, 1557 (200 est., 1357 all roaming freely and obviously not loft birds); Snowy Owl, 1 (R.R.); Short-eared Owl, 1; Yellow-shafted Flicker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 12; Blue Jay, 16; Am. Crow, 11; Black-capped Chickadee, 69; White-breasted Nuthatch, 4; Brown Thrasher, 1 (W.S., N.B., M.G.); Robin, 1; Cedar Waxwing, 1; Starling, 80,000 (75,000 est. from 125th St. roost and 5000 est. from roost in upper Manhattan); English Sparrow, 596 (535 est., 61); Redwing, 14; Rusty Blackbird, 3; Purple Grackle, 4; Brown-headed Cowbird, 16 (all blackbirds from big Starling roost); Cardinal, 1; Pine Siskin, 1 (W.S., N.B., M.G.); Slate-colored Junco, 35; Tree Sparrow, 3; White-throated Sparrow, 28; Song Sparrow, 25. **Total,** 44 species; 85,672 individuals.—Ned Boyajian, Eugene Eisenmann, Hustace Poor, Herman Goebel, Malcolm Gordon, Henry Ryan, Richard Ryan, William Roth, Alfred Sutton, William Solomon.

72. Olean, N.Y. (center of city along Allegheny River southeast to Pennsylvania State line, west to Vandalia, south to Knapp Creek, north to Hinsdale; cleared land in valley 35%, mixed coniferous-deciduous forest on slopes 45%, stream border 20%).—Dec. 31; 7 a.m. to 5 p.m. Clear in a.m., cloudy in p.m.; temp. 20° to 38°; wind NW, 1-7 m.p.h.; ground frozen but bare of snow (even on tops of highest ridges); Allegheny River and its larger tributaries open but smaller ponds and streams frozen over. Seven observers in 3 parties. Total hours, 18; total miles, 51 (11 on foot, 40 by car). Black-crowned Night Heron, 1; Sparrow Hawk, 2; Ruffed Grouse, 3; Ring-necked Pheasant, 1; Belted Kingfisher, 3; Pileated Woodpecker, 1; Hairy Woodpecker, 5; Downy Woodpecker, 6; Blue Jay, 11; Am. Crow, 3; Black-capped Chickadee, 89; White-breasted Nuthatch, 10; Red-breasted Nuthatch, 2; Brown Creeper, 6; Robin, 1; Golden-crowned Kinglet, 1; Starling, 246; English Sparrow, 180; Cardinal, 7; Pine Siskin, 6; Am. Goldfinch, 5; Slate-colored Junco, 13; Tree Sparrow, 79; Song Sparrow, 2. **Total,** 24 species; about 683 individuals.—Robert Andrle, Stephen W. Eaton, Donald Malick, Vincent Malick, Bernard Nathan, Richard Roscher, William C. Vaughan.

73. Port Chester, N.Y. (extreme eastern Westchester County, Greenwich, and Stamford, Conn., including Manursing Island, Rye and Kensico lakes, Audubon Nature Center, etc.; open fields 10%, brush-grown fields 10%, town suburbs 25%, deciduous woodlots 40%, coniferous woods 2%, cattail marsh 1%, Long Island Sound 12%).—Dec. 26; 5 a.m. to 5 p.m. Completely overcast, with occasional drizzle; temp. 35° to 53° to 49°; wind SW, very light; all lakes and most ponds open. Forty-five observers in 10 parties, including 5 observers at feeding stations. Total hours, 90, (75 on foot, 15 by car); total miles, 303 (75 on foot, 228 by car). Common Loon, 2; Red-throated Loon, 5; Holboell's Grebe, 1; Horned Grebe, 27; Pied-billed Grebe, 4; European Cormorant, 5; Great Blue Heron, 12; Mute Swan, 7; Canada Goose, 99; Mallard, 537 (400 est., 137); Black Duck, 1232 (950 est.,

282); Wood Duck, 1; Ring-necked Duck, 40; Greater Scaup Duck, 799 (650 est., 149); Am. Golden-eye, 259 (200 est., 59); Buffle-head, 39; Old-squaw, 91; White-winged Scoter, 1184 (1100 est., 84); Surf Scoter, 40; Hooded Merganser, 19; Am. Merganser, 288; Red-breasted Merganser, 199; Sharp-shinned Hawk, 2; Cooper's Hawk, 2; Red-tailed Hawk, 4; Red-shouldered Hawk, 8; Bald Eagle, 1; Marsh Hawk, 1; Sparrow Hawk, 4; Ruffed Grouse, 4; Ring-necked Pheasant, 14; Am. Coot, 1; Killdeer, 8; Great Black-backed Gull, 19; Herring Gull, 4264 (3600 est., 664); Ring-billed Gull, 92 (90 est., 2); Bonaparte's Gull, 2; Mourning Dove, 64; Barn Owl, 1; Screech Owl, 3; Horned Owl, 3; Snowy Owl, 1; Barred Owl, 3; Short-eared Owl, 1; Belted Kingfisher, 6; Yellow-shafted Flicker, 19; Pileated Woodpecker, 1; Hairy Woodpecker, 25; Downy Woodpecker, 104; Horned Lark (Northern), 7; Blue Jay, 219; Am. Crow, 254 (200 est., 54); Black-capped Chickadee, 530 (more than twice any previous count); White-breasted Nuthatch, 83; Red-breasted Nuthatch, 3; Brown Creeper, 8; Winter Wren, 2; Brown Thrasher, 1; Catbird, 1; Robin, 105 (3 times previous high); Hermit Thrush, 1; Eastern Bluebird, 50; Golden-crowned Kinglet, 11; Am. Pipit, 50 (est.); Cedar Waxwing, 50; Northern Shrike, 1; Starling, 495; Myrtle Warbler, 77; English Sparrow, 485; Brown-headed Cowbird, 11; Cardinal, 4; Evening Grosbeak, 1; Purple Finch, 85 (4 times previous high); Pine Siskin, 31; Am. Goldfinch, 138; Eastern Towhee, 5; Slate-colored Junco, 390; Tree Sparrow, 250; Field Sparrow, 2; White-throated Sparrow, 119; Fox Sparrow, 1; Swamp Sparrow, 2; Song Sparrow, 53. **Total,** 83 species; 13,072 (7240 est., 5832) individuals. (Seen in area Dec. 24, Chipping Sparrow at feeder.)—G. Anable, L. Bradley, S. Bromley, Mrs. B. Brooks, R. Burdsall, H. Clovis, W. Cook, G. Coven, P. Cummings, J. Dick, Mrs. H. Dickenson, G. Fiero, Mrs. W. Geis, M. Hanrahan, Mr. and Mrs. M. Hart, G. Hebard, Mrs. J. Hickey, E. Hirschberg, L. Kautzmann, E. Luhde, E. Manning, A. and J. Maples, J. McIlwaine, C. Mohr, J. Moxhay, M. Oboiko, V. Obrig, L. Pearl, J. Phelps, B. Read, Mrs. A. Rockefeller, J. Roemer, Mr. and Mrs. M. S. Roesler, Mr. and Mrs. W. Scofield, E. Smith, R. Smyth, P. Spofford, A. Starrett, I. Swift, R. Wainwright, J. Whitlock, V. Wystrack.

74. Rensselaerville (Albany Co.) N.Y. (including Edmund Niles Huyck Preserve; woodland 60%, farmland 40%).—Dec. 24; 8 a.m. to 4:30 p.m. Clear to cloudy, with some snow flurries; temp. 18° to 29°; wind W., light; 1-in. snow on ground. All but one observer together. Total hours [not stated.— Ed.]; total miles, 20 (5 on foot, 15 by car). Ruffed Grouse, 6; Pileated Woodpecker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 3; Blue Jay, 6; Am. Crow, 4; Black-capped Chickadee, 47; White-breasted Nuthatch, 7; Red-breasted Nuthatch, 4; Brown Creeper, 1; Starling, 48; English Sparrow, 47 (in 1 flock); Pine Grosbeak, 61; Tree Sparrow, 8. **Total,** 14 species; 245 individuals.—George R. Cooley, Robin Cooley, David B. Harper, Francis Harper, Jean S. Harper, Lucy L. Harper, Robin F. Harper, Florence Peasley.

75. Rochester, N.Y. (Lake Ontario shore from Manitou on Braddocks Bay east to Five Mile Line Road including Genesee River Outlet, Durand-Eastman Park, Irondequoit Bay, Palmer's Glen, Ellison Park, Corbett's Glen, Cobbs Hill Park, Highland Park, Mt. Hope Cemetery, Seneca Park, Reed Road Swamp, upper and lower Genesee River; open farmland 45%, lake and bay area 20%, public parks 15%, river banks and swampland 10%, deciduous woods 8%, coniferous woods 2%.) —Jan. 2; 7 a.m. to 5 p.m. Cloudy with fog and intermittent light rain; temp. 44° to 46°; wind negligible; no snow on ground; water open with the exception of very small amounts of skim ice in sheltered parts of ponds. Fifty-seven observers in 24 parties. Total hours, 197; total miles, 560 (96 on foot, 464 by car). Common Loon, 13; Red-throated Loon, 1; Gannet, 1 (R.W.H. and party); Great Blue Heron, 2; Canada Goose, 20; Mallard, 80; Black Duck, 236 (150 est., 86); Pintail, 2; Greater Scaup Duck, 30 (est.); Lesser Scaup Duck, 100 (est.); Am. Golden-eye, 396; Buffle-head, 11; Old-squaw, 161; Hooded Merganser, 1; Am. Merganser, 19; Red-breasted Merganser, 16; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 2; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 23; Ring-necked Pheasant, 77; King Rail, 1 (Dr. and Mrs. N.S.M. and others); Great Black-backed Gull, 9; Herring Gull, 265 (150 est., 115); Ring-billed Gull, 464 (450 est., 14); Mourning Dove, 20; Screech Owl, 6; Horned Owl, 4; Snowy Owl, 2; Yellow-shafted Flicker, 1; Pileated Woodpecker, 1; Red-bellied Woodpecker, 12; Hairy Woodpecker, 8; Downy Woodpecker, 29; Blue Jay, 30; Am. Crow, 214; Black-capped Chickadee, 228; Brown-capped Chickadee, 1; White-breasted Nuthatch, 18; Red-breasted Nuthatch, 12; Brown Creeper, 10; Winter Wren, 1; Catbird, 1; Robin, 14; Hermit Thrush, 1; Golden-crowned Kinglet, 5; Cedar Waxwing, 55; Northern Shrike, 1; Loggerhead Shrike, 1 (studied for 20 min. at close range. —J.W.T. and party); Starling, 816; English Sparrow, 310; Red-wing, 11; Purple Grackle (Bronzed), 5; Brown-headed Cowbird, 4; Cardinal, 31; Purple Finch, 1; Pine Siskin, 6; Am. Goldfinch, 1; Slate-colored Junco, 36; Tree Sparrow, 411; White-throated Sparrow, 1; Swamp Sparrow, 14; Song Sparrow, 56; Snow Bunting, 75 (50 est., 25). **Total,** 66 species; about 4388 individuals. (Seen on Jan. 1, Iceland Gull, 1; Myrtle Warbler, 1 (Durand-Eastman Park). The King Rail was watched for several days by a number of observers.—Dr. and Mrs. Charles F. H. Allen, Elisha Atkins, Donald B. Bieber, J. Warner Brown, H. Everest Clements, John J. Conway, Jr., Mrs. Gertrude L. Davis, Robert Dobson, Robert E. Dolan, Robert J. Dolan, Mr. and Mrs. Richard DuPree, Mr. and Mrs. William L. G. Edson, Robert V. Folker, Edwin G. Foster, Helen M. Foster, Jon Freckleton, Dr. and Mrs. Milton R. Goff, Reginald W. Hartwell, Ber-

nard Hill, Mr. and Mrs. David E. Jensen, George W. Jones, Jr., Byron A. Johnson, Jr., Mr. and Mrs. Allen E. Kemnitzer, Mr. and Mrs. Allan S. Klonick, Gerhard W. Leubner, Walter C. Listman, Eugene E. McCarthy, Robert G. McKinney, Earl B. Mahoney, Richard Mahoney, Howard S. Miller, Dr. and Mrs. Neil S. Moon, Dorothy E. Morrison, Dr. and Mrs. John J. Morton, Robert D. Ness, Richard T. O'Hara, Dr. and Mrs. James G. Richmond, Joe Rockwell, Nancy Rosenberg, A. M. Secker, Elmer F. Siebert, Milroy N. Stewart, Arthur Tanghe, Leo J. Tanghe, Joseph William Taylor, Donald J. Wolf, Byron L. Zimmer (Burroughs-Audubon Nature Club and Genesee Ornithological Society).

76. Rockland County, N.Y. (same area as last 2 years, 15-mile circle centered upon New City, N.Y.; open farmland 30%, deciduous woodland 35%, ponds and fresh-water marsh 15%, salt-water marsh 5%, coniferous woodland 5%, residential 10%).—Jan. 2; 6:45 a.m. to 5 p.m. Cloudy, light to heavy rain; temp. 35° to 48° to 45°; wind S, 3-5 m.p.h.; ground bare; only skim ice at edges of a few ponds. Forty observers in 11 parties. Total hours, 83 (67 on foot, 16 by car); total miles, 357 (55 on foot, 302 by car). Mallard, 43; Black Duck, 58; Pintail, 1 (1st time—J.C.O., *et al.*); Redhead, 2; Canvas-back, 247; Am. Golden-eye, 8; Ruddy Duck, 150 (est.); Am. Merganser, 245; Red-breasted Merganser, 2; Sharp-shinned Hawk, 1; Red-tailed Hawk, 2; Red-shouldered Hawk, 5; Bald Eagle, 6; Marsh Hawk, 2; Sparrow Hawk, 7; Ruffed Grouse, 1 (1st time—E.R.B., M.R.H.); Ring-necked Pheasant, 2; Am. Coot, 1; Killdeer, 2; Great Black-backed Gull, 4; Herring Gull, 389; Ring-billed Gull, 1; Mourning Dove, 86 (flocks of 39 and 47); Long-eared Owl, 1 (1st time—J.C.O., *et al.*); Yellow-shafted Flicker, 12; Hairy Woodpecker, 19; Downy Woodpecker, 110; Blue Jay, 302; Am. Crow, 199; Black-capped Chickadee, 579; Tufted Titmouse, 94; White-breasted Nuthatch, 149; Brown Creeper, 16; Winter Wren, 2; Catbird, 1; Brown Thrasher, 1 (E.R.B., M. R. H.); Robin, 6; Hermit Thrush, 6; Olive-backed Thrush, 1 (at 15 ft., T.C.W. observed no rufous in back or tail) [no further substantiating details.—Ed.]; Eastern Bluebird, 135; Cedar Waxwing, 27; Northern Shrike, 3 (in 1 locality—J.C.O., *et al.*); Starling, 589; Myrtle Warbler, 93; English Sparrow, 625; Eastern Meadowlark, 16 (in 1 flock); Red-wing, 4; Purple Grackle, 1; Brown-headed Cowbird, 1 (flock of 55 seen on Jan. 7); Cardinal, 35; Purple Finch, 158; Pine Siskin, 11; Am. Goldfinch, 373; Eastern Towhee, 3 (Mr. and Mrs. W.G.I., R.C.); Slate-colored Junco, 804; Tree Sparrow, 585; Chipping Sparrow, 4 (R.B.L., *et al.*); Field Sparrow, 11; White-throated Sparrow, 152; Fox Sparrow, 3; Swamp Sparrow, 12; Song Sparrow, 90. **Total,** 62 species; about 6498 individuals. (Seen in area Jan. 1, Golden-crowned Kinglet, 1.) —John C. Orth, John Kenney, Stanley Grierson, Fred Ulmer, Joseph Martin, Vivian B. Krum, Robert F. Deed, Homer S. Kelsey, Mr. and Mrs. Richard Weindling, Edwin C. Doscher, Dr. and Mrs. Robert L. Burkhart, Mr. and Mrs. Frank Steffens, Mrs. Jane L. Brownbridge, Jennifer Brownbridge, Edward Kincaid, Mr. and Mrs. William G. Irving, Richard Carroll, Herman Kretschmar, Theodore H. Eiben, Thomas C. Wilfred, Mrs. Earl B. Brown, Eugene R. Brown, Marjorie R. Hopper, Martin Sickels, Betty Fox, Helene Tietz, Jean Davidson, Mr. and Mrs. Stephen W. Collins, Mr. and Mrs. Richard B. Lyman, Dorothy Lyman, Janet Lyman, Richard Lyman, Jr., Bertha Miller, Mrs. Harrison Pearce (Rockland Audubon Society).

77. Saranac Lake—Lake Placid, N.Y. (environs of Lake Placid village, Saranac Lake village, Trudeau Sanatorium grounds, Saranac River from Trudeau to Bloomingdale, Moose Pond and Franklin Falls, Forest Home Road; open farmland 20%, town suburbs 20%, river borders 10%, mixed deciduous and coniferous woodland 40%, blueberry meadows 10%).—Jan. 1; 7 a.m. to 4:30 p.m. Cloudy at start, clearing to sunny by noon; temp. 28° to 32°; no wind; 1-3-in. soft snow; lakes and ponds frozen, Saranac River partly open; pine-cone crop moderate. Four observers in 2 parties. Total hours, 11½; total miles, 6 (on foot). Black Duck, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 3; Downy Woodpecker, 5; Blue Jay, 13; Am. Crow, 7; Black-capped Chickadee, 53; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 4; Northern Shrike, 3; Starling, 6; English Sparrow, 33; Brown-headed Cowbird, 1; Evening Grosbeak, 121; Pine Grosbeak, 2; Pine Siskin, 1; Red Crossbill, 6; White-winged Crossbill, 18; Tree Sparrow, 7; Snow Bunting, 147. **Total,** 20 species; 435 individuals. (Seen in area Dec. 31, Golden-crowned Kinglet, 4.)—Gordon M. Meade, Carl G. Merkel, Monique Wiedel, Philip Wiedel.

78. Schenectady, N.Y. (same area as in 1929 and subsequent counts—exc. 1946; centered about 5 miles due south of Schenectady; urban and suburban 5%, farmyards 5%, open farmland 40%, light deciduous woods 20%, mixed deciduous and evergreen woods 10%, brushy hillsides and ravines 10%, cattail marshes 10%).—Dec. 26; 7 a.m. to 5 p.m. Overcast, occasional light drizzle; temp. 34° to 50° to 48°; wind SE changing to W in p.m., 0-10 m.p.h.; no snow; all streams open, few marshes open. Thirty-five observers in 10 parties, plus urban and suburban feeding-station records. Total hours, 34¾ (27 on foot, 7¾ by car); total miles, 213 (52 on foot, 161 by car). Great Blue Heron, 1; Black Duck, 4; Am. Merganser, 8; Cooper's Hawk, 1; Red-tailed Hawk, 2 (ad. and imm.); Marsh Hawk, 1; Sparrow Hawk, 7; Ruffed Grouse, 2; Ring-necked Pheasant, 10; Killdeer, 1 (1st on count—S.P., G.M., P.R., R.G.); Herring Gull, 23 (est.); Mourning Dove, 1; Yellow-shafted Flicker, 6; Pileated Woodpecker, 2; Hairy Woodpecker, 16; Downy Woodpecker, 33; Blue Jay, 54; Am. Crow, 784 (incl. 347 at Carman roost—G.B.); Black-capped Chickadee, 341; White-breasted Nuthatch, 30; Brown Creeper, 9; Robin, 5; Northern Shrike, 1

(ad.); Starling, 3033 (incl. 2000 est. in downtown roosts); English Sparrow, 683; Red-wing, 11 (2 groups); Purple Grackle (Bronzed), 3 (1st on count, with group of Red-wings—D.T., R.V.); Common Redpoll, 50 (1 flock); Am. Goldfinch, 17; Vesper Sparrow, 2 (1st on count; well seen with Tree Sparrows and Juncos—A.A., A.H., P.S.M.); Slate-colored Junco, 75; Tree Sparrow, 420; Song Sparrow, 19. **Total,** 33 species; about 5655 individuals, plus a 23½"-long, recently dead, female Horned Owl. (Seen during count week, Snowy Owl, 2, Dec. 1st to date, Horned Owl, Barred Owl, imm. Goshawk, Belted Kingfisher).—Alice Abel, J. J. Anderson, Mrs. C. C. Bailey, Guy Bartlett, Mrs. Laura Beck, Mrs. W. E. Blowney, Mrs. R. M. Brockway, Mildred Crary, Agnes Eddy, Robert Goble, Mrs. C. J. Grace, Lawrence S. Hill, Alice Holmes, Gary Jameson, Mrs. H. G. Kelley, Frederick A. Klemm, Samuel A. Madison, Gloria Meader, Mr. and Mrs. B. D. Miller, P. S. Miller, Mrs. W. S. McGraw, Stephanie Podrazik, Joan Pollak, Mr. and Mrs. Joseph Pollak, Peter Rumsey, Vincent J. Schaeffer, Mrs. E. W. Scott, Donald Tucker, J. M. Tucker, Robert Vessels, Leon A. Wiard, Arthur J. Woodward, Rudolph H. Stone (Schenectady Bird Club).

79. Staten Island, N.Y.—Dec. 26; 7:30 a.m. to 4:30 p.m. Heavily overcast, drizzling 9 to 9:30 a.m.; temp. 45° to 55°; wind S, light; ground bare. Ten observers in 4 parties. Total hours, 9; total miles on foot, 50 (est.). Horned Grebe, 13; Great Blue Heron, 1; Black Duck, 456; Canvas-back, 1; Greater Scaup Duck, 3325 (est.); Am. Golden-eye, 31; Buffle-head, 24; Old-squaw, 17; White-winged Scoter, 12; Am. Merganser, 2; Red-tailed Hawk, 1; Red-shouldered Hawk, 3; Marsh Hawk, 13; Sparrow Hawk, 10; Ring-necked Pheasant, 9; Killdeer, 19; Great Black-backed Gull, 10; Herring Gull, 7800 (est.); Ring-billed Gull, 2; Laughing Gull, 4; Bonaparte's Gull, 600 (est.); Mourning Dove, 17; Snowy Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 1; Hairy Woodpecker, 5; Downy Woodpecker, 12; Horned Lark, 7; Blue Jay, 49; Am. Crow, 72; Black-capped Chickadee, 74; White-breasted Nuthatch, 7; Robin, 13; Starling, 1290; Myrtle Warbler, 5; English Sparrow, 238; Red-wing, 198; Cardinal, 25; Am. Goldfinch, 29; Slate-colored Junco, 107; Tree Sparrow, 97; Field Sparrow, 1; White-crowned Sparrow, 5 (Curl); White-throated Sparrow, 87; Song Sparrow, 93. **Total,** 45 species; about 14,789 individuals.—Carlton Beil, Roger Christiansen, Howard Cleaves, Herbert Curl, Lee A. Ellison, Henry Flamm, Kurt Henning, Charles Pearson, Casimir Redjives, Mathilde P. Weingartner.

80. Troy, N.Y. (Hudson River from above bridge, Stillwater, to below Congress Street Bridge, Troy; Hoosic River from above Valley Falls to mouth; Tomhannock Creek from Tamarack Swamp source to mouth; Tomhannock Reservoir; Mohawk River from above Dunsbach Ferry to mouth; Anthony Kill from Coons to mouth; about 30 miles of shore line; urban and suburban 20%, open farmland 30%, brush 10%, light deciduous woods 15%, mixed deciduous and evergreen woods 10%, cattail marshes 15%).—Dec. 31; 8:30 a.m. to 4 p.m. Clear; temp. 15° to 32° to 30°; no wind; no snow; streams open but with broken and drifting thin ice, Tomhannock Reservoir ¼ open. Two observers together. Total hours, 7½ (3½ on foot, 4 by car); total miles, 40 (5 on foot, 35 by car). Mallard, 128; Black Duck, 2800 (est.); Pintail, 4; Am. Golden-eye, 145; Old-squaw, 1; Am. Merganser, 365; Red-tailed Hawk, 3; Sparrow Hawk, 2; Ring-necked Pheasant, 1; Herring Gull, 800 (est.); Ring-billed Gull, 55; Hairy Woodpecker, 3; Downy Woodpecker, 5; Blue Jay, 4; Am. Crow, 32; Black-capped Chickadee, 54; White-breasted Nuthatch, 2; Brown Creeper, 1; Starling, 45; English Sparrow, 16; Am. Goldfinch, 1; Tree Sparrow, 2; Song Sparrow, 1. **Total,** 23 species; about 4470 individuals. (Seen outside area same day, Snowy Owl, 1. Seen Dec. 24 in prescribed area by B. C. Gardner and E. G., Common Loon, 1; Holboell's Grebe, 1; White-winged Scoter, 6 [J. J. Anderson]; Belted Kingfisher, 1; Pileated Woodpecker, 1; Slate-colored Junco, 7.)—G. Malcolm Andrews, Ernest Geiser.

81. Watertown, N.Y. (circle of 7-mile radius with Public Square as center; 10 feeding stations, wooded areas 24%, evergreen swamps 26%, streets 20%, riverbanks 2%, farmland 24%, park 4%).—Dec. 31; [starting and stopping time not stated—Ed.]. Sunny; temp. 8° at 8 a.m. to 20° at dusk; no wind; no snow; swamps frozen. Fifty-five observers, 10 at feeding stations, 5 Girl Scout troops (2-3-4-3-2 members respectively), 15 observers in pairs, rest singly. Total party-hours, 53¾; total party-miles, 60 (on foot). Great Blue Heron, 2; Black Duck, 14; Red-shouldered Hawk, 1; Rough-legged Hawk, 2; Sparrow Hawk, 4; Sharp-shinned Hawk, 1; Ruffed Grouse, 9; European Partridge, 4; Ring-necked Pheasant, 5; Herring Gull, 103; Rock Dove (wild), 441; Screech Owl, 1; Snowy Owl, 3; Belted Kingfisher, 2; Hairy Woodpecker, 13; Downy Woodpecker, 19; Blue Jay, 18; Am. Crow, 1; Black-capped Chickadee, 126; White-breasted Nuthatch, 7; Red-breasted Nuthatch, 1; Brown Creeper, 8; Northern Shrike, 4; Starling, 2938; English Sparrow, 1324; Tree Sparrow, 43; Snow Bunting, 25. **Total,** 27 species; 5119 individuals. (Reported same week, Horned Owl, 1, Evening Grosbeak, 5.)—J. L. Bedford, Mr. and Mrs. Harold Besha, John Belknap, Mr. and Mrs. Paul Biggers, Mr. and Mrs. Joseph Blake, Mrs. Bunce, Mr. and Mrs. Frank Clinch, James Common, Miss L. Fitsimmons, Mr. and Mrs. J. M. Gamble, Lucile and Eb Grant, Gertrude Houghton, Mr. and Mrs. Kenfield, May Lewis, Mr. and Mrs. David Nelson, Erma Scheel, Sutherland Simpson, Mr. and Mrs. Austin Stevens, Mrs. R. Scott, Wm. Schuster, Mrs. John Stone, Mr. and Mrs. Salisbury and Dan and Arthur, Mr. and Mrs. Nat Sherman, Mr. and Mrs. Richard Taylor, Arthur Walrath, Mrs. Lorenzo Wait, Mrs. F. Warn, Mrs. Clayton Wodell. Scout leaders: Mrs. L. H. Irvine, Kathryn Fish, Mrs. Alfred Harley, Jean Ives. Girl Scouts: Janice Ferguson, Constance

Dupee, Mary McQuoid, Gail Harley, Lucille Simmons, Glend Fuller, Shirley Townsend, Carol Hoye, Minna A. Common.

82. Watkins Glen, N.Y. (9th Street to a point 1 mile west along cemetery and Glen, east to point 2 miles east of Seneca Lake, and long marsh to village dump).—Dec. 31; 9 a.m. to 5 p.m. Sunny; temp. 22° to 40° to 38°; wind S, 13-18 m.p.h.; ground bare, frozen at first. Total hours, 8; total miles, 3 (on foot). Common Loon, 1; Horned Grebe, 2; Ring-necked Pheasant, 1; Hawk (sp.), 1; Great Black-backed Gull, 1; Herring Gull, 160; Hairy Woodpecker, 1; Downy Woodpecker, 1; Blue Jay, 1; Am. Crow, 3; Black-capped Chickadee, 24; White-breasted Nuthatch, 5; Starling, 21; Am. Goldfinch, 2; English Sparrow, 125; Slate-colored Junco, 26; Tree Sparrow, 14; Song Sparrow, 5. **Total,** 18 species; 394 individuals.—Louise Helfer (Watkins-Montour Bird Club).

[Mr. and Mrs. Morris Bardeen and sons, James, Brian, and Michael, took a count in this same area on Dec. 30 and recorded 74 individuals of 11 species. Their list included 1 Yellow-shafted Flicker in addition to species above.—Ed.]

83. Barnegat, N.J. (same area as in 1946 and in previous counts; salt marsh 40%, bay and beach 40%, upland 20%).—Dec. 30; 5:10 a.m. to 5:45 p.m. Clear, visibility good; temp. 27° to 46°; wind N, 13-18 m.p.h.; bay open; ground bare. Eight observers in 4 parties. Total hours, 47 (36 on foot, 11 by car); total miles, 170 (27 on foot, 143 by car). Common Loon, 11; Red-throated Loon, 39; Holboell's Grebe, 1; Horned Grebe, 15; Gannet, 2; European Cormorant, 2 (R.S.T.); Double-crested Cormorant, 28; Great Blue Heron, 16; Canada Goose, 2; Brant, 20,000 (est.); Mallard, 2; Black Duck, 710; Baldpate, 2; Wood Duck, 2; Redhead, 5; Greater Scaup Duck, 8; Am. Golden-eye, 53; Buffle-head, 78; Old-squaw, 145; White-winged Scoter, 1; Surf Scoter, 6; Am. Scoter, 1; Am. Merganser, 3; Red-breasted Merganser, 714; Turkey Vulture, 23; Sharp-shinned Hawk, 2; Rough-legged Hawk, 6; Bald Eagle, 2; Marsh Hawk, 20; Sparrow Hawk, 7; Clapper Rail, 1; Am. Coot, 10; Ruddy Turnstone, 3; Greater Yellow-legs, 1; Purple Sandpiper, 3; Red-backed Sandpiper, 133; Sanderling, 32; Great Black-backed Gull, 32; Herring Gull, 1085; Ring-billed Gull, 105; Bonaparte's Gull, 28; Razor-billed Auk, 1 (R.S.T.); Dovekie, 1 (dead, oiled; 1 captured alive in area, Dec. 28, by R.C.F.); Horned Owl, 2; Snowy Owl, 1; Barred Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 10; Hairy Woodpecker, 1; Downy Woodpecker, 7; Horned Lark, 151; Am. Crow, 43; Black-capped Chickadee, 5; Carolina Chickadee, 50; Tufted Titmouse, 6; White-breasted Nuthatch, 2; Brown Creeper, 2; Carolina Wren, 3; Short-billed Marsh Wren, 1; Catbird, 1; Robin, 136; Hermit Thrush, 6; Eastern Bluebird, 7; Golden-crowned Kinglet, 5; Northern Shrike, 3; Myrtle Warbler, 296; English Sparrow, 53; Eastern Meadowlark, 46; Red-wing, 3; Brown-headed Cowbird, 35; Cardinal, 9; Purple Finch, 4; Pine Siskin, 1; Am. Goldfinch, 23; Eastern Towhee, 1; Ipswich Sparrow, 6; Savannah Sparrow, 9; Slate-colored Junco, 57; Tree Sparrow, 105; Field Sparrow, 1; White-throated Sparrow, 36; Fox Sparrow, 3; Swamp Sparrow, 2; Song Sparrow, 32; Snow Bunting, 45. **Total,** 85 species; about 24,550 individuals.—Henry Bennett, Frank Bachmura, Robert C. and Ronald Frohling, Charles Hetzel, Donald Kunkle, Nick Niosi, Richard S. Thorsell.

84. Boonton, N.J. (an area not exceeding a 15-mile diameter with Troy Hills the center; deciduous woodland 30%, open marsh 20%, wooded swamp 20%, pasture and farmland 15%, miscellaneous 15%).—Dec. 26; 6 a.m. to 6 p.m. Overcast, fog and occasional light rain, visibility poor; temp. 37° to 57°; wind S, max. velocity 14 m.p.h.; reservoir open, lakes and ponds partly open, water level lowest ever in Boonton Reservoir, streams and rivers about normal; ground bare. Thirty-four observers in 8 parties. Total hours, 85 (55 on foot, 25 by car, 5 by boat); total miles, 200 (65 on foot, 130 by car, 5 by boat). Pied-billed Grebe, 6; Great Blue Heron, 2; Am. Bittern, 1; Mallard, 46; Black Duck, 1047; Baldpate, 56; Pintail, 10; Green-winged Teal, 12; Ring-necked Duck, 33; Canvas-back, 1; Greater Scaup Duck, 8; Am. Golden-eye, 9; Bufflehead, 15; Ruddy Duck, 52; Hooded Merganser, 4; Am. Merganser, 7; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 7; Red-shouldered Hawk, 8; Marsh Hawk, 1; Sparrow Hawk, 9; Ruffed Grouse, 10; Ring-necked Pheasant, 8; Virginia Rail, 1; Am. Coot, 50; Killdeer, 1; Woodcock, 1; Herring Gull, 25; Mourning Dove, 2; Screech Owl, 2; Barred Owl, 3; Long-eared Owl, 3; Short-eared Owl, 1; Belted Kingfisher, 5; Yellow-shafted Flicker, 9; Hairy Woodpecker, 38; Downy Woodpecker, 87; Horned Lark (Northern), 8; Blue Jay, 202; Am. Crow, 144; Black-capped Chickadee, 569; Tufted Titmouse, 111; White-breasted Nuthatch, 132; Brown Creeper, 23; Winter Wren, 4; Carolina Wren, 1; Long-billed Marsh Wren, 6; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 23; Golden-crowned Kinglet, 1; Ruby-crowned Kinglet, 1; Northern Shrike, 1; Starling, 637; Myrtle Warbler, 3; English Sparrow, 435; Red-wing, 181; Rusty Blackbird, 86; Brown-headed Cowbird, 4; Cardinal, 34; Purple Finch, 2; Pine Siskin, 3; Am. Goldfinch, 493; Eastern Towhee, 2; Slate-colored Junco, 430; Tree Sparrow, 1464; Chipping Sparrow, 1; Field Sparrow, 10; White-throated Sparrow, 125; Swamp Sparrow, 18; Song Sparrow, 137; Snow Bunting, 1. **Total,** 73 species; 6877 individuals.—L. Ajello, F. Bachmura, C. D. Brown, T. Butler, W. Clark, J. L. Edwards, F. Elliott, A. E. Eynon, F. DeHart, L. Fink, R. Frohling, R. Hagar, C. Hetzel, R. Honaman, D. Kunkle, R. Lorber, J. Mann, C. Mayhood, R. McDowell, R. Murray, A. Nelson, C. Nichols, N. Niosi, H. Pariseau, A. Peterson, N. Reardon, L. Sanford, M. Sanford, D. Schaeffer, K. Schneider, D. Sharpe, R. Thorsell, H. M. Van Deusen, F. P. Wolfarth (Urner Ornithological Club).

85. Cape May, N.J. (7½-mile radius from Rio Grande, Cape May County; salt marsh 15%, woodland 15%, cultivated land 15%, sand beach 5%, ocean and bay 50%).—Jan. 2; 6 a.m. to 5 p.m. Cloudy in a.m., clearing in p.m.; temp. 41° at start, 53° at return; wind SE, 0-7 m.p.h. Fifty-five observers in 11 parties. Total hours, 85 (55 on foot, 23 by car, 7 by motorboat); total miles, 465 (85 on foot, 350 by car, 30 by boat). Common Loon, 43; Red-throated Loon, 123; Horned Grebe, 7; Pied-billed Grebe, 21; Gannet, 8; Double-crested Cormorant, 9; Great Blue Heron, 50; Little Blue Heron, 44; Black-crowned Night Heron, 150; Canada Goose, 62; Brant, 5150 (est.); Mallard, 11; Black Duck, 1877; Green-winged Teal, 11; Baldpate, 16; Greater Scaup Duck, 176; Am. Golden-eye, 131; Buffle-head, 196; Old-squaw, 164; White-winged Scoter, 274; Surf Scoter, 397; Am. Scoter, 470; Ruddy Duck, 3; Am. Merganser, 7; Red-breasted Merganser, 161; Turkey Vulture, 272; Sharp-shinned Hawk, 4; Cooper's Hawk, 13; Red-tailed Hawk, 9; Red-shouldered Hawk, 4; Rough-legged Hawk, 3; Bald Eagle, 10; Marsh Hawk, 63; Peregrine Falcon, 2; Pigeon Hawk, 1; Sparrow Hawk, 26; Bob-white, 3; Ring-necked Pheasant, 1; Clapper Rail, 3; Virginia Rail, 1; Killdeer, 172; Black-bellied Plover, 32; Woodcock, 1 (seen and heard singing—J.K.P.); Wilson's Snipe, 2; Hudsonian Curlew, 2 (observed at close range on open marsh under ideal conditions—W.R., T.B., R.S.); Greater Yellow-legs, 7; Lesser Yellow-legs, 1; Knot, 3; Purple Sandpiper, 10; Least Sandpiper, 12; Red-backed Sandpiper, 5916 (est.); Semipalmated Sandpiper, 4; Western Sandpiper, 6; Sanderling, 297; Great Black-backed Gull, 51; Herring Gull, 2363 (est.); Ring-billed Gull, 303; Bonaparte's Gull, 213; Dovekie, 1; Mourning Dove, 51; Horned Owl, 11; Short-eared Owl, 2; Saw-whet Owl, 1; Belted Kingfisher, 8; Yellow-shafted Flicker, 37; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 12; Downy Woodpecker, 30; Eastern Phoebe, 1; Horned Lark, 187; Tree Swallow, 10; Blue Jay, 91; Am. Crow, 2595 (est.); Fish Crow, 15; Carolina Chickadee, 232; Tufted Titmouse, 60; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 4; Brown Creeper, 7; Winter Wren, 8; Carolina Wren, 32; Long-billed Marsh Wren, 1; Short-billed Marsh Wren, 4; Mockingbird, 4; Catbird, 11; Brown Thrasher, 2; Robin, 534; Hermit Thrush, 15; Eastern Bluebird, 37; Golden-crowned Kinglet, 7; Ruby-crowned Kinglet, 3; Am. Pipit, 76; Cedar Waxwing, 22; Loggerhead Shrike, 3; Starling, 3226 (est.); Myrtle Warbler, 4785 (est); Palm Warbler (Western), 1; Yellow-throat, 4; English Sparrow, 1560 (est.); Eastern Meadowlark, 350; Red-wing, 674; Rusty Blackbird, 1; Purple Grackle, 5; Brown-headed Cowbird, 843; Cardinal, 85; Purple Finch, 25; Am. Goldfinch, 489; Eastern Towhee, 31; Ipswich Sparrow, 7; Savannah Sparrow, 27; Sharp-tailed Sparrow, 12; Seaside Sparrow, 2; Vesper Sparrow, 50; Slate-colored Junco, 166; Tree Sparrow, 126; Field Sparrow, 53; White-throated Sparrow, 589; Fox Sparrow, 4; Swamp Sparrow, 16; Song Sparrow, 186. **Total,** 121 species; about 37,107 individuals.—J. B. Austin, J. H. Austin, E. Archer, J. Arnett, Jr., T. Barnett, J. Cadbury, E. Choate, D. Coman, W. Corson, C. Cutler, R. Darby, C. Darlington, E. Finkel, L. Fonaroff, H. Goldstein, H. Guthrie, J. Jacobs, R. Haines, G. Kramer, M. A. Linton, E. Marshall, E. Marshall, Jr., P. Marvin, M. McCutcheon, N. J. McDonald, J. McIlvaine, F. McLaughlin, A. Nicholson, Jr., J. K. Potter, C. Reagan, G. Regensberg, G. Reynard, W. Reynolds, C. Ross, D. Rutherford, W. Savory, J. Schnell, Jr., P. Schwalbe, R. Schl, W. Sheldon, C. Staaz, F. Stokes, Jr., P. Street, R. Thomas, D. Twining, F. Ulmer, M. Weiss, E. Wildman, R. Williams, J. Wilson, C. Wonderly, W. Wright, C. Wurster, A. Zaid, I. Zeidman (Delaware Valley Ornithological Club).

86. Elizabeth, N.J. (Newark Bay across Newark meadows and north Elizabeth to Kean's woods; bay front 25%, salt meadows 10%, fresh-water meadows 20%, garbage dumps 5%, suburbs 15%, deciduous woods 20%, scrubby fields 5%).—Dec. 29; 6 a.m. to 6 p.m. Clear; temp. 32° to 50°; wind NW, 19-38 m.p.h. Two observers together. Total hours, 12; total miles, 16 (on foot). Mallard, 2; Black Duck, 5; Scaup Duck (sp.), 20; Sharp-shinned Hawk, 1; Marsh Hawk, 3; Peregrine Falcon, 2; Ring-necked Pheasant, 1; Herring Gull, 320; Barn Owl, 1; Snowy Owl, 2; Short-eared Owl, 16; Belted Kingfisher, 1; Downy Woodpecker, 5; Horned Lark, 23; Black-capped Chickadee, 8; Tufted Titmouse, 1; Starling, 200; English Sparrow, 40; Eastern Meadowlark, 3; Red-wing, 71; Cardinal, 11; Am. Goldfinch, 1; Slate-colored Junco, 32; Tree Sparrow, 54; White-throated Sparrow, 18; Song Sparrow, 9. **Total,** 26 species; 850 individuals.—John Crowell, Jack Wolf.

87. Great Swamp-Watchung Ridges, N.J. (7½-mile radius from New Providence; dry deciduous woods 50%, fields 25%, wet deciduous woods 10%, surburban areas 10%, evergreen woods 5%).—Dec. 26; 7 a.m. to 6 p.m. Mostly cloudy, occasional sun; temp. 40° to 50° F.; wind NW, 15-30 m.p.h.; pond and streams open. Thirty-two observers in 3 parties and at feeding stations. Total party-hours, 60; total party-miles, 35 (on foot). Canada Goose, 1; Mallard, 22; Black Duck, 37; Am. Merganser, 200; Red-tailed Hawk, 8; Red-shouldered Hawk, 5; Rough-legged Hawk, 1; Sparrow Hawk, 12; Ring-necked Pheasant, 6; Great Black-backed Gull, 1; Herring Gull, 1902; Mourning Dove, 10; Screech Owl, 1; Long-eared Owl, 7; Belted Kingfisher, 3; Yellow-shafted Flicker, 5; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 21; Downy Woodpecker, 114; Blue Jay, 171; Am. Crow, 151; Black-capped Chickadee, 370; Tufted Titmouse, 100; White-breasted Nuthatch, 116; Brown Creeper, 6; Catbird, 1 (E.W., D.W.); Hermit Thrush, 1; Eastern Bluebird, 14; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 1; Cedar Waxwing, 65; Starling, 627; Myrtle Warbler, 13; English Sparrow, 535; Eastern Meadowlark, 34; Red-wing, 12; Cardinal, 48; Purple Finch, 29; Pine Siskin, 25; Am. Goldfinch, 258; Eastern Towhee, 1; Slate-col-

ored Junco, 723; Tree Sparrow, 763; Field Sparrow, 5; White-throated Sparrow, 105; Fox Sparrow, 5; Swamp Sparrow, 7; Song Sparrow, 87. **Total,** 48 species; 6633 individuals.—Andrew Bihun, Jr., Edward Chalif, Thomas and Ken Crowell, Mr. and Mrs. Richard Cubberly, Granger, Robert, and Paul Davenport, Mrs. Henry Davis, John Faber, Edwin Gould, Mr. and Mrs. James Hand, James B. and Lois Hawley, Charles Hoiles, Philip Hubert, John and J. B. Ketterson, Jeanette Middlebrook, Mrs. Una Miller, J. d'Arcy Northwood, Mr. and Mrs. William Shulman, Lois Wenman, Mrs. John Whitlock, David Wilcox, Ethel Woolfenden, John Zrybko, Mr. and Mrs. Marshall Harrington (New Jersey Audubon Society).

88. Hackensack, N.J. (center of town to Radburn and East Ridgewood Ave. on north, Hudson River on east, Passaic River on west, and Kingsland on south; residential area 25%, woodlots 10% brackish cattail and phragmites marsh 35%, river area 10%, garbage dumps 5%, fields 15%).—Dec. 26; 7:30 a.m. to 4 p.m. Overcast with occasional rain; temp. 35° to 52°; wind E veering to SE, 8-12 m.p.h.; all water areas open. Fifty-three observers in 15 parties. Total hours, 91 (91 on foot, 3 in cars); total miles, 108½ (59½ on foot, 49 by car). Mallard, 112; Black Duck, 111; Pintail, 5; Green-winged Teal, 4; Buffle-head, 1; Ruddy Duck, 1; Sharp-shinned Hawk, 2; Red-tailed Hawk, 12; Red-shouldered Hawk, 1; Rough-legged Hawk, 3; Marsh Hawk, 2; Sparrow Hawk, 16; Ring-necked Pheasant, 5; Am. Coot, 1; Iceland Gull, 1; Great Black-backed Gull, 4; Herring Gull, 649; Ring-billed Gull, 226; Mourning Dove, 33; Long-eared Owl, 10; Belted Kingfisher, 6; Yellow-shafted Flicker, 9; Pileated Woodpecker, 1; Hairy Woodpecker, 7; Downy Woodpecker, 107; Eastern Phoebe, 1; Blue Jay, 212; Am. Crow, 79; Black-capped Chickadee, 351; Tufted Titmouse, 21; White-breasted Nuthatch, 64; Brown Creeper, 2; House Wren, 1 [no substantiating details—Ed.]; Winter Wren, 2; Long billed Marsh Wren, 8; Robin, 4; Eastern Bluebird, 9; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 9; Starling, 6728 (4000±500, 2728); English Sparrow, 789; Red-wing, 331; Rusty Blackbird, 6; Purple Grackle, 324; Brown-headed Cowbird, 65; Cardinal, 22; Common Redpoll, 20; Am. Goldfinch, 123; Eastern Towhee, 5; Vesper Sparrow, 6; Slate-colored Junco, 595; Tree Sparrow, 780; Field Sparrow, 52; White-throated Sparrow, 366; Fox Sparrow, 10; Swamp Sparrow, 15; Song Sparrow, 336. **Total,** 57 species; about 12,663 individuals.—D. Ackerman, D. Allen, C. Anderson, A. Andoro, H. Armitt, Mr. and Mrs. J. K. Boldtmann, J. L. Brewer, Jim Brewer, Joe Brewer, B. Clark, R. Connor, D. Conway, J. Daly, R. Deacon, C. Demarest, J. Demarest, W. Downin, R. Evans, D. Gooding, J. Gorman, W. Gorman, P. Grosch, G. Hatch, L. Hatch, B. Holt, E. Jetty, T. Kennedy, W. Kovacs, W. Kross, D. MacMillan, J. Martens, G. Nearing, T. Nightingale, D. Pallas, H. Pallas, B. Patten, H. Patten, R. Post, M. Ramsbotham, M. Richter, J. Rowe, F. Russell, F. Schetty, C. Siess, L. J. Siess, F. Spring, H. Stout, T. Taylor, G. Utzatt, E. Vincent, E. Weisselberg, H. Wells. (Hackensack Audubon Society, Radburn Troop Boy Scouts, Paterson Boy Scout Troops 35 and 12).

89. Lakehurst, N.J. (Point Pleasant to Toms River, Lakehurst and Lakewood; pine woods 50%, deciduous woods 20%, cultivated land 10%, cedar swamps 5%, sand beach 5%, salt marsh 5%, towns 5%).—Dec. 26; 7 a.m. to 6 p.m. Rain at start, then clearing and mild; temp. 45° to 52° F.; wind NE shifting to NW, 10-25 m.p.h.; all ponds and streams open. Thirteen observers in 4 parties. Total party-hours, 25; total party-miles, 125 (100 by car, 25 on foot). Common Loon, 4; Red-throated Loon, 13; Horned Grebe, 2; Pied-billed Grebe, 4; Gannet, 1; Double-crested Cormorant, 3; Great Blue Heron, 10; Mute Swan, 3; Canada Goose, 1675; Am. Brant, 80; Mallard, 63; Black Duck, 850; Gadwall, 2; European Widgeon, 1; Baldpate, 180; Pintail, 6; Shoveller, 2; Canvas-back, 1; Greater Scaup Duck, 45; Am. Golden-eye, 75; Buffle-head, 14; Old-squaw, 1; White-winged Scoter, 4; Surf Scoter, 1; Am. Scoter, 3; Ruddy Duck, 6; Am. Merganser, 12; Red-breasted Merganser, 30; Turkey Vulture, 1; Sharp-shinned Hawk, 2; Sparrow Hawk, 5; Bob-white, 8; Clapper Rail, 4; Am. Coot, 200; Killdeer, 14; Great Black-backed Gull, 580; Herring Gull, 2100; Ring-billed Gull, 166; Laughing Gull, 6 (observed at close range by 2 parties); Bonaparte's Gull, 7; Rock Dove, 7 (feral birds that have bred in wild state at Lakehurst for years); Mourning Dove, 37; Snowy Owl, 1; Belted Kingfisher, 8; Yellow-shafted Flicker, 8; Hairy Woodpecker, 4; Downy Woodpecker, 10; Horned Lark (Northern), 2; Blue Jay, 8; Am. Crow, 45; Carolina Chickadee, 60; Tufted Titmouse, 8; White-breasted Nuthatch, 6; Brown Creeper, 3; Long-billed Marsh Wren, 1; Robin, 35; Golden-crowned Kinglet, 10; Cedar Waxwing, 22; Starling, 325; Orange-crowned Warbler, 1 (observed as close as 5 ft.—R.S., G.W.); Myrtle Warbler, 115; Palm Warbler (Yellow), 2 (R.S., G.W.); English Sparrow, 90; Eastern Meadowlark, 1; Red-wing, 11; Cardinal, 8; Am. Goldfinch, 52; Ipswich Sparrow, 1; Sharp-tailed Sparrow, 1; Slate-colored Junco, 70; Tree Sparrow, 32; Field Sparrow, 2; White-throated Sparrow, 40; Swamp Sparrow, 4; Song Sparrow, 30; Snow Bunting, 1. **Total,** 76 species; 7245 individuals.—Fritz Baumle, Barbara Cook, Jerry Day, David Fables, Rudi Franke, Richard Johnson, Isabell Meyer, Donald White (Union Junior College, Field Naturalist's Group), Gilbert Cant, Russell Sieder, Jack Wolf, Glen and Lester Woolfenden.

90. Long Branch, N.J. (Oceanport to Wreck Pond; residential area 5%, beach front 20%, farmland 10%, woods 20%, bushy fields and marshes 10%, bays and ponds 35%).—Jan. 2; 5 a.m. to 5 p.m. Clear at times, mostly cloudy, with brief showers; temp. 36° at start, 40° on return; wind practically none; no snow; ponds open. Twenty-three observers in 8 parties. Total hours, 90 (45 on foot); total miles, 400 (320 by car, 80 on foot).

Common Loon, 3; Red-throated Loon, 12; Horned Grebe, 12; Pied-billed Grebe, 7; Gannet, 2; Double-crested Cormorant, 10; Great Blue Heron, 5; Canada Goose, 28; Mallard, 156; Black Duck, 2345; Gadwall, 3 (H.P.B.); European Widgeon, 2; Baldpate, 1125; Pintail, 5; Green-winged Teal, 7; Wood Duck, 1; Redhead, 13; Ring-necked Duck, 47; Canvas-back, 6; Scaup Duck (both forms identified), 4630 (4000 est., 630); Am. Golden-eye, 140; Bufflehead, 54; Old-squaw, 1; White-winged Scoter, 8; Ruddy Duck, 308; Hooded Merganser, 11; Am. Merganser, 49; Red-breasted Merganser, 67; Sharp-shinned Hawk, 2; Red-tailed Hawk, 3; Red-shouldered Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 16; Ruffed Grouse, 1; Ring-necked Pheasant, 6; Clapper Rail, 1; Am. Coot, 121; Killdeer, 10; Wilson's Snipe, 1; Glaucous Gull, 1 (G.W.); Iceland Gull, 1 (identified by wing-color as Kumlien's race—J.L.E., C.D.B., A.E.E.); Great Black-backed Gull, 784; Herring Gull, 5435 (5300 est., 135); Ring-billed Gull, 63; Bonaparte's Gull, 131; Razor-billed Auk, 1; Dovekie, 11 (10 dead); Mourning Dove, 152; Screech Owl, 3; Horned Owl, 2; Snowy Owl, 1 (D.K.); Belted Kingfisher, 8; Yellow-shafted Flicker, 25; Hairy Woodpecker, 4; Downy Woodpecker, 68; Horned Lark, 143; Blue Jay, 83; Am. Crow, 492; Fish Crow, 4; Black-capped Chickadee, 6 (C.B.S.); Carolina Chickadee, 253; Tufted Titmouse, 107; White-breasted Nuthatch, 21; Brown Creeper, 5; Winter Wren, 8; Carolina Wren, 6; Long-billed Marsh Wren, 2; Catbird, 1; Robin, 106; Hermit Thrush, 13; Eastern Bluebird, 8; Golden-crowned Kinglet, 7; Cedar Waxwing, 97; Northern Shrike, 1; Starling, 3285 (2700 est., 585); Myrtle Warbler, 885 (600 est., 285); English Sparrow, 295; Red-wing, 15,016 (15,000 est., 16); Purple Grackle, 10,034 (10,000 est., 34); Brown-headed Cowbird, 1520 (1500 est., 20); Cardinal, 53; Purple Finch, 26; Pine Siskin, 3; Am. Goldfinch, 145; Savannah Sparrow, 1; Slate-colored Junco, 271; Tree Sparrow, 215; Field Sparrow, 16; White-throated Sparrow, 244; Fox Sparrow, 1; Swamp Sparrow, 8; Song Sparrow, 128. **Total,** 93 species; approximately 49,420 individuals. Two enormous flocks of blackbirds aggregating perhaps 25,000 individuals were found. Four species, Red-wings, Grackles, Cowbirds, and Starlings were definitely identified. Since the flocks were feeding and in constant movement, any kind of accurate count was impossible.—H. P. Bennett, I. H. Black, C. D. Brown, F. DeHart, J. L. Edwards, A. E. Eynon, R. Frohling, C. Hetzel, D. Kunkle, N. Niosi, R. Sargent, Mr. and Mrs. C. B. Schaughency, G. M. Seeley, H. G. Seeley, R. Sieder, R. Thorsell, F. Weinfeldt, E. M. Wisner, V. Wisner, F. P. Wolfarth, Ethel Woolfenden, G. Woolfenden.

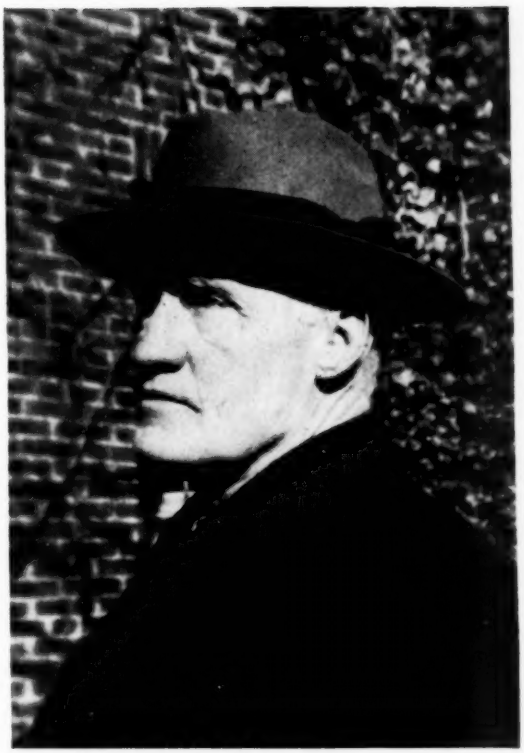
91. Moorestown, Maple Shade, and Riverton, N.J. (Delair to Delanco along Delaware, Maple Shade, Moorestown, Mt. Laurel, Hartford, and Bridgeboro; open farmland and hedgerows 42%, town surburbs 18%, deciduous woods 18%, riverfront 14%, wet brushy meadow 6%, evergreen woods 2%).—Dec. 31; dawn to dusk. Clear; temp. 24° to 40°; wind N, 0-10 m.p.h.; ground bare; thin ice on still water. Sixty observers in 25 parties. Total hours, 63 (38¼ on foot, 13½ by car, 111¼ at feeding stations); total miles, 154¾ (43¼ on foot, 111½ by car). Black-crowned Night Heron, 7; Mallard, 9; Black Duck, 61; Pintail, 2307; Green-winged Teal, 9; Scaup Duck (sp.), 6; Am. Golden-eye, 8; Am. Merganser, 37; Turkey Vulture, 6; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 6; Red-shouldered Hawk, 7; Rough-legged Hawk, 2; Marsh Hawk, 10; Sparrow Hawk, 34; Ring-necked Pheasant, 3; Killdeer, 91; Herring Gull, 531; Ring-billed Gull, 33; Bonaparte's Gull, 15; Mourning Dove, 15; Barn Owl, 1; Horned Owl, 1; Long-eared Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 12; Hairy Woodpecker, 3; Downy Woodpecker, 47; Horned Lark, 109; Blue Jay, 88; Am. Crow, 1147; Fish Crow, 2; Chickadee (probably mostly Carolina), 131; Tufted Titmouse, 35; White-breasted Nuthatch, 18; Red-breasted Nuthatch, 3; Brown Creeper, 5; Winter Wren, 2; Mockingbird, 1; Robin, 1; Eastern Bluebird, 19; Golden-crowned Kinglet, 5; Cedar Waxwing, 18; Loggerhead Shrike, 1; Starling, 893; Myrtle Warbler, 2; English Sparrow, 443; Eastern Meadowlark, 58; Red-wing, 30; Purple Grackle, 1; Cardinal, 102; Am. Goldfinch, 77; Eastern Towhee, 1; Savannah Sparrow, 1; Slate-colored Junco, 472; Tree Sparrow, 155; Chipping Sparrow, 21; Field Sparrow, 18; White-throated Sparrow, 366; Fox Sparrow, 2; Swamp Sparrow, 7; Song Sparrow, 128. **Total,** 63 species; 7633 individuals.—Sarah Aldridge, Herman F. and Irene Anders, John Augustine, Alfred, Alyce, Deborah, and Alison Borton, W. Lowell, Bessie and Robert E. Cleaver, Helen C. Collins, Frances and Mary Conrow, Albert and Beatrice Dorell, Elsie Elkinton, Charles and W. Bacon Evans, Elizabeth Gillingham, Mary Elizabeth Glassey, Robert L. Haines, Mary Harris, Wendell and Mary Hinkey, Mabel Hollinshead, Philip E. Howard, Jr., M. Albert and Margaret Linton, Anna and Elizabeth Lippincott, Percy and Myra Lovell, Dorothy Mathias, James and Helen Moore, Leonard and Helena Morgan, Dorothy Nelson, A. Nicholson, Jr., David Niederhauser, Mr. and Mrs. T. H. Read, Jr., Chester L. Reagan, William H. and Helen Roberts, Alice Rogers, Jack Salmon, Eleanor Schaible, Joseph, Sylvia, Howard, Hal, Jody and Nanna Taylor, Esther Wallace, Ethel Warlow, Edward and Hannah Wildman, James L. Wilson.

92. Mount Holly, N.J. (Mt. Holly, Lumberton, Centerton, from Delanco to Burlington along Delaware River, back to starting point; open farmland 65%, stream bottom 15%, woods 10%, river front 10%).—Dec. 24; 6:30 a.m. to 5.30 p.m. Clear; temp. 30° at start, 28° on return. Total hours 10½ (6 in car, 4½ on foot); total miles, 62 (55 by car, 7 on foot). Four observers, 3 together in a.m.; 1 from 2 to 5:30 pm. Mallard, 6; Black Duck, 35; Pintail, 50; Ring-necked Duck, 3; Turkey Vulture, 8; Red-tailed Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 11; Killdeer, 3; Herring Gull, 30; Mourning

Dove, 1; Barn Owl, 1; Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 4; Blue Jay, 2; Am. Crow, 300; Carolina Chickadee, 10; Tufted Titmouse, 14; White-breasted Nuthatch, 4; Brown Creeper, 1; Carolina Wren, 2; Hermit Thrush, 1; Golden-crowned Kinglet, 10; Starling, 100; Myrtle Warbler, 2; English Sparrow, 10; Eastern Meadowlark, 6; Red-wing, 1; Cardinal, 5; Evening Grosbeak, 5; Purple Finch, 3; Am. Goldfinch, 62; Slate-colored Junco, 12; Tree Sparrow, 8; White-throated Sparrow, 14; Song Sparrow, 2. **Total,** 37 species; 731 individuals.—May Middleton, J. Russell Sprow, Russell C. Armstrong, Nelson D. W. Pumyea.

93. North Bergen, N.J. (an area ¾ mile wide between Hudson and Hackensack rivers; North Hudson Park 20%, residential 40%, tidal marsh and swampy woodland 40%).—Dec. 25; [starting and stopping time not stated—Ed.]. Partly cloudy in a.m., heavy overcast in p.m.; temp. 30° to 35°; wind W to NW, moderate; ground bare, fresh ponds, brackish creeks, and rivers ice-free. Two observers together in a.m., 1 alone in p.m. Total hours, 7; total miles 6 (5 on foot, 1 by car). Mallard, 31; Black Duck, 512; Baldpate, 2; Pintail, 2; Green-winged Teal, 12; Red-tailed Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 2; Virginia Rail, 1; Am. Coot, 2; Great Black-backed Gull, 3; Herring Gull, 91; Ring-billed Gull, 1; Barn Owl, 2; Long-eared Owl, 1; Downy Woodpecker, 1; Blue Jay, 1; Black-capped Chickadee, 38; White-breasted Nuthatch, 1; Am. Pipit, 1; Starling, 718; Myrtle Warbler, 1; English Sparrow, 53; Red-wing, 2; Am. Goldfinch, 3; Slate-colored Junco, 9; Tree Sparrow, 80; White-throated Sparrow, 2; Swamp Sparrow, 2; Song Sparrow, 40. **Total,** 30 species; 1647 individuals.—Ned R. Boyajian, Owen S. Comora.

94. Princeton, N.J. (within a 9¼-mile diameter; villages, estates, farms, lowland and upland deciduous woods, red-cedar groves, swamps, marsh, lake, ponds, and streams).—Dec. 26; dawn till after dark. Mostly cloudy; temp. 42° to 60° to 56°; wind SW, light; ground bare, all waters open. Thirteen observers in 7 parties and 1 at a food-station. Total hours afield, 65; total miles, 85 (80 afoot, 5 by car). Pied-billed Grebe, 1; Canada Goose, 70 (1 flock); Mallard, 371; Black Duck, 48; Green-winged Teal, 1; Shoveller, 2; Wood Duck, 1; Turkey Vulture, 1; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 3; Marsh Hawk, 4; Sparrow Hawk, 3; Ring-necked Pheasant, 1; Am. Coot, 1; Herring Gull, 12; Mourning Dove, 3; Long-eared Owl, 4; Belted Kingfisher, 4; Yellow-shafted Flicker, 37; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 19; Downy Woodpecker, 88; Eastern Phoebe, 1; Horned Lark, 68; Blue Jay, 150; Am. Crow, 450; Fish Crow, 2; Chickadee, 279 (mostly Black-capped, probably at least 20 Carolina); Tufted Titmouse, 117; White-breasted Nuthatch, 52; Brown Creeper, 23; Winter Wren, 6 (2 in full song); Carolina Wren, 4; Mockingbird, 1; Robin, 5; Hermit Thrush, 7; Eastern Bluebird, 40; Golden-crowned Kinglet, 7; Ruby-crowned Kinglet, 2; Cedar Waxwing, 70; Starling,



Charles H. Rogers, of Princeton, New Jersey, who has participated in all 50 Counts.

670; Myrtle Warbler, 225; English Sparrow, 370; Eastern Meadowlark, 18 (flock); Rusty Blackbird, 1; Purple Grackle, 8; Cardinal, 51; Purple Finch, 58; Am. Goldfinch, 200; Savannah Sparrow, 3; Slate-colored Junco, 515; Tree Sparrow, 133; Chipping Sparrow, 3; Field Sparrow, 31; White-throated Sparrow, 184; Swamp Sparrow, 1; Song Sparrow, 112. **Total,** 60 species; about 1550 individuals. (Seen in area in count period: Pintail, 3; Am. Merganser, 7; Screech Owl, 1; Brown Thrasher, 1; Am. Pipit, flock of 200; Purple Grackle, flock of 5000.) Noteworthy are the 10-12 species usually found farther south and the number of Black-capped Chickadees, 3 times as many as in any count since the big flight of 1918, when there also was an unusually mild winter.—R. J. Delatour, J. P. Gee, R. N. Laughlin, J. T. and R. R. Law, F. W. Loetscher, Jr., J. K. Meritt, Peter Mott, B. S. Ridgely, C. H. and W. S. Rogers, A. L. Shinn, J. K. Wallis, N. C. Wyckoff.

95. Raritan Estuary, N.J. (circle centered at Bonhamtown as in former years; open farmland 20%, fresh-water swamps 5%, swampy wood 10%, deciduous woods 10%, pine barrens 5%, salt meadows 30%, towns and suburbs 20%).—Dec. 27; 6 a.m. to 5 p.m. Dense ground mist at dawn, slowly lifting; solid overcast and intermittent rain all day; visibility 200 yds. at start, ½ mile at 10 a.m., 5 mile at noon; no wind until noon, then light (less than

7 m.p.h.) SW; ground soggy, all water open. Eight observers in 4 parties. Total hours, 30; total miles, 41 (23 on foot, 18 by car). Mallard, 7; Black Duck, 3; Greater Scaup Duck, 7000 (est.); Lesser Scaup Duck, 147; Am. Golden-eye, 4; Buffle-head, 7; White-winged Scoter, 123; Am. Merganser, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Rough-legged Hawk, 4; Marsh Hawk, 1; Sparrow Hawk, 6; Ring-necked Pheasant, 2; Great Black-backed Gull, 1; Herring Gull, 533; Ring-billed Gull, 23; Bonaparte's Gull, 73; Rock Dove (feral, on public buildings in cities), 44; Screech Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 8; Hairy Woodpecker, 2; Downy Woodpecker, 13; Horned Lark, 92 (Northern, 90; Prairie—2 carefully studied at close range by J.T.S.H.); Blue Jay, 19; Am. Crow, 3000 (79 in daytime, 3000 [est.] in roost); Fish Crow, 2; Black-capped Chickadee, 25; Tufted Titmouse, 4; White-breasted Nuthatch, 4; Brown Creeper, 1; Mockingbird, 1; Robin, 6; Hermit Thrush, 1; Golden-crowned Kinglet, 1; Cedar Waxwing, 25; Starling, 60,000 (618 in daytime, 60,000 [est.] in roost); Myrtle Warbler, 20; English Sparrow, 188; Eastern Meadowlark, 1; Red-wing, 50,000 (108 in daytime, 50,000 [est.] in roost); Rusty Blackbird, 1; Purple Grackle, 15,000 (8 in daytime, 15,000 [est.] in roost); Brown-headed Cowbird, 5000 (24 in daytime, 5000 [est.] in roost); Cardinal, 5; Purple Finch, 2; Pine Siskin, 45; Am. Goldfinch, 91; Eastern Towhee, 1; Slate-colored Junco, 105; Tree Sparrow, 249; Field Sparrow, 3; White-throated Sparrow, 47; Fox Sparrow, 1; Swamp Sparrow, 12; Song Sparrow, 68. **Total,** 59 species (1 additional subspecies); about 142,031 individuals.—Gilbert Cant, Jerry Day, David Fables, John P. Gee, John T. S. Hunn, Russell Sieder, Don and Glen Woolfenden (Urner Ornithological Club).

96. Ridgewood, N.J. (Mahwah to Piermont, south to Oradell and Glen Rock, southern boundary slightly north of previous years to avoid overlap; open fields and farmland 35%, deciduous woodland 27%, evergreen woods 8%, swamps and thickets along streams and marshland 25%, feeding stations 5%).—Dec. 26; 8 a.m. to 4:30 p.m. Overcast, occasional light rain, rather heavy fog on eastern edge; temp. 40° to 45°; wind 1-7 m.p.h.; ground clear of snow and unfrozen, all ponds ice-free. Forty-one observers in 14 parties. Total party-hours, 76 (feeding stations counted as 1 party); total party-miles, 52½ (on foot). Canada Goose, 10; Mallard, 197; Black Duck, 104; Am. Golden-eye, 1; Ruddy Duck, 2; Am. Merganser, 160; Sharp-shinned Hawk, 3; Cooper's Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 1; Marsh Hawk, 3; Sparrow Hawk, 3; Ruffed Grouse, 3; Ring-necked Pheasant, 2; Great Black-backed Gull, 25; Herring Gull, 253; Ring-billed Gull, 10; Mourning Dove, 21; Screech Owl, 1; Barred Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 6; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 23; Downy Woodpecker, 128; Blue Jay, 408; Am. Crow, 89; Black-capped Chickadee, 645; Tufted Titmouse, 177; White-breasted Nuthatch, 138; Red-breasted Nuthatch, 1; Brown Creeper, 14; Winter Wren, 7; Robin, 8; Hermit Thrush, 5; Eastern Bluebird, 24; Golden-crowned Kinglet, 5; Cedar Waxwing, 56; Starling, 700+; Myrtle Warbler, 35; English Sparrow, 698+; Eastern Meadowlark, 1; Cardinal, 38; Purple Finch, 174; Pine Siskin, 22; Am. Goldfinch, 247; Eastern Towhee, 11; Slate-colored Junco, 712; Tree Sparrow, 493; Chipping Sparrow, 1; Field Sparrow, 35; White-throated Sparrow, 278; Fox Sparrow, 1; Swamp Sparrow, 1; Song Sparrow, 109. **Total,** 55 species; 6098+ individuals. (Seen in area Dec. 28; Brown Thrasher, 1.)—John Anderson, Mrs. R. H. Baker, Robert Barth, Mrs. R. N. Berke, Mr. and Mrs. H. E. Carnes, Mrs. R. D. Coombs, Mr. and Mrs. J. Y. Dater, Jr., Mrs. F. G. Dunham, Ann Dunham, Mr. and Mrs. N. Emig, G. C. Engel, Donald Eves, Mrs. G. B. Fetter, Mrs. L. Fusser, Mr. and Mrs. R. Gaede, Mrs. H. Gould, Mrs. W. Ibnefeld, Mrs. C. J. Kientzler, Mrs. H. A. Lampe, Arthur Linz, Mrs. H. McEntee, Mrs. F. McKenna, Mr. and Mrs. C. K. Nichols, T. H. Parsons, Walter Plaisted, Mr. and Mrs. A. Runk, Robert Trimble, Donald Vail, Peter Vail, Mr. and Mrs. J. Van Saun, Mrs. A. Walter, Mr. and Mrs. Lem Webster, Chauncy Wood (Ridgewood Audubon Society).

97. Allentown, Pa. (Lake Muhlenberg, Trexler Memorial Park, 8 miles west to Trexlertown, then 3 miles WNW to bird-banding station; swampland 60%, pine grove 20%, small ponds 5%, open farmland 5%, deciduous woodlot 10%).—Dec. 26; 8 a.m. to 3:30 p.m. Overcast; temp. 28° to 44°; no wind. Ten observers (in 2 parties part of time): total hours, 8½ (8 on foot, ½ by car); total miles, 56 (16 on foot, 40 in car). Pied-billed Grebe, 1; Mallard, 126; Black Duck, 116; Baldpate, 8; Pintail, 2; Green-winged Teal, 3; Wood Duck, 1; Ring-necked Duck, 1; Cooper's Hawk, 1; Red-tailed Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 3; Am. Coot, 2; Herring Gull, 7; Mourning Dove, 12; Snowy Owl, 2; Long-eared Owl, 3; Belted Kingfisher, 1; Hairy Woodpecker, 1; Downy Woodpecker, 7; Blue Jay, 18; Am. Crow, 20,000 (20,000 est., 142); Black-capped Chickadee, 21; Tufted Titmouse, 19; White-breasted Nuthatch, 4; Brown Creeper, 6; Winter Wren, 4; Golden-crowned Kinglet, 3; Ruby-crowned Kinglet, 1; Starling, 1100 (1100 est., 56); English Sparrow, 121; Purple Grackle, 6; Cardinal, 20; Purple Finch, 6; Am. Goldfinch, 1; Slate-colored Junco, 92; Tree Sparrow, 5; White-throated Sparrow, 5; Song Sparrow, 8. **Total,** 40 species; about 21,730 individuals.—Ann Pettock, Gladys E. Tait, David Newcomer, Samuel Newcomer, Paul A. Ruth, Wm. M. Stauffer, Jr., Chas. Y. Murphy, Herman A. Weil, Earl E. Montgomery, Carl E. Montgomery (Lehigh Valley Bird Club).

98. Clairton, Pa. (precipitous slopes of City Park; Peters Creek bottoms and adjacent hillsides to vicinity of Large, thence by circuitous route northward through Jefferson Township to Coal Valley, and homeward by Solar Fuel mine; open

farmland 20%, town suburbs 35%, deciduous woodlands 45%).—Dec. 31; 8 a.m. to 5 p.m. Clear except for occasional haziness; temp. 27° to 46°; no wind; ground bare; streams open, ponds with thin ice covering. Observers together. Total hours, 9 (on foot); total miles, 9 (on foot). Downy Woodpecker, 1; Am. Crow, 2; Black-capped Chickadee, 15; Tufted Titmouse, 3; Carolina Wren, 2; Starling, 14; English Sparrow, 34; Cardinal, 19; Am. Goldfinch, 10; Slate-colored Junco, 18; Tree Sparrow, 4; Song Sparrow, 6. **Total,** 12 species; 128 individuals.—Ellis H. Shimp, Carl E. Shimp.

99. Deer Creek (Allegheny Co.), Pa. (Denny's Pond to Carson's, both sides of creek; Allegheny River between 14 Mile Island and highway; some outlying sections covered by 1 party in a car; deciduous woodland 75%, open farmland 15%, marsh 5%, urban 5%).—Jan. 1; 8 a.m. to 3 p.m. Foggy, some rain; temp. 40° to 50°; no wind; ground bare; river high and free of ice. Six observers in 2 parties. Total hours, 14 (11 on foot, 3 by car); Total miles, 26 (5 on foot, 21 by car). Black Duck, 17; Ring-necked Duck, 2; Canvas-back, 6; Sparrow Hawk, 1; Yellow-shafted Flicker, 1; Downy Woodpecker, 7; Am. Crow, 5; Black-capped Chickadee, 62; Tufted Titmouse, 5; White-breasted Nuthatch, 1; Brown Creeper, 1; Carolina Wren, 2; Starling, 122; English Sparrow, 46; Cardinal, 22; Am. Goldfinch, 26; Slate-colored Junco, 46; Tree Sparrow, 36; Song Sparrow, 7. **Total,** 19 species; 415 individuals.—John Sisley, Gordon Michel, Stanley Rapp, Robert Manley, David Manley, C. R. Manley, Jr.

100. Elverson (Chester Co.), Pa. (7½-mile radius from Marsh P. O.; cedar groves and thickets 10%, meadows and swampland 25%, deciduous woods 25%, upland fields 40%).—Dec. 31; dawn to dusk. Clear; temp. 20° to 30°; wind SW, 1-5 m.p.h.; ground bare. Seven observers in 3 parties. Total hours, 64 (afoot); total miles, 36 (afoot); cars used only in rapid transportation. Mallard, 20; Ring-necked Duck, 1; Am. Merganser, 3; Cooper's Hawk, 2; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 5; Sparrow Hawk, 6; Ruffed Grouse, 2; Ring-necked Pheasant, 32; Wilson's Snipe, 16; Mourning Dove, 10; Screech Owl, 1; Horned Owl, 2; Long-eared Owl, 7; Belted Kingfisher, 2; Yellow-shafted Flicker, 7; Downy Woodpecker, 46; Horned Lark, 12; Blue Jay, 44; Am. Crow, 525; Black-capped Chickadee, 80; Tufted Titmouse, 37; White-breasted Nuthatch, 15; Red-breasted Nuthatch, 1; Carolina Wren, 1; Mockingbird, 2; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 17; Golden-crowned Kinglet, 2; Cedar Waxwing, 3; Starling, 924; Myrtle Warbler, 5; English Sparrow, 228; Red-wing, 240; Rusty Blackbird, 75; Cardinal, 50; Purple Finch, 15; Am. Goldfinch, 66; Eastern Towhee, 3; Slate-colored Junco, 334; Tree Sparrow, 430; White-throated Sparrow, 66; Swamp Sparrow, 2; Song Sparrow, 58. **Total,** 47 species; 3405 individuals.—Robert Cook, Arlene and Ruthmary Wagner, Barry and Robert Kruppenbach, Eugene Hollinger, Arthur Sigman.

101. Glenolden, Pa. (15-mile diameter area in Delaware County, including Delaware River, Tinicum Marshes, Springton Reservoir, Darby, Crum, Ridley and Chester Creek valleys; deciduous woodland 25%, uncultivated fields 25%, town suburbs 20%, open farmland 10%, marshes 10%, pine woods 5%, water 5%).—Dec. 31; 7:30 a.m. to 6 p.m. Clear in a.m., partly cloudy in p.m.; temp. 20° to 40° to 34°; no wind; water open; ground bare. Nineteen observers in 8 parties. Total hours, 49 (31 on foot, 18 by car); total miles, 192 (47 on foot, 145 by car). Common Loon, 1; Pied-billed Grebe, 3; Black-crowned Night Heron, 1; Canada Goose, 190; Mallard, 129; Black Duck, 10,000 (est.); Baldpate, 58; Pintail, 7500 (est.); Green-winged Teal, 2; Blue-winged Teal, 1; Wood Duck, 2; Ring-necked Duck, 16; Greater Scaup Duck, 25; Bufflehead, 1; Ruddy Duck, 872; Am. Merganser, 17; Cooper's Hawk, 2; Red-tailed Hawk, 32; Red-shouldered Hawk, 2; Rough-legged Hawk, 7; Bald Eagle, 1; Marsh Hawk, 11; Sparrow Hawk, 4; Ring-necked Pheasant, 4; Killdeer, 33; Greater Yellow-legs, 1 (Debes, Corbett); Great Black-backed Gull, 1 (R.F.M.); Herring Gull, 315; Ring-billed Gull, 26; Mourning Dove, 7; Barn Owl, 1; Screech Owl, 1; Long-eared Owl, 8 (P.S.); Saw-whet Owl, 1 dead (Price, *et al.*); Belted Kingfisher, 4; Yellow-shafted Flicker, 5; Red-headed Woodpecker, 1 (Gillespie, *et al.*); Hairy Woodpecker, 6; Downy Woodpecker, 39; Horned Lark, 2; Blue Jay, 66; Am. Crow, 1164; Black-capped Chickadee, 50; Carolina Chickadee, 3; Tufted Titmouse, 78; White-breasted Nuthatch, 27; Red-breasted Nuthatch, 5; Brown Creeper, 9; Winter Wren, 1; Carolina Wren, 4; Mockingbird, 1 (J.P.R.); Robin, 1; Hermit Thrush, 3; Eastern Bluebird, 7; Golden-crowned Kinglet, 10; Ruby-crowned Kinglet, 1 (Austins); Am. Pipit, 1; Cedar Waxwing, 1; Starling, 670; Myrtle Warbler, 3; English Sparrow, 235; Red-wing, 1300; Brown-headed Cowbird, 60; Cardinal, 45; Purple Finch, 14; Am. Goldfinch, 459; Eastern Towhee, 16; Savannah Sparrow, 1; Slate-colored Junco, 366; Tree Sparrow, 69; Field Sparrow, 22; White-throated Sparrow, 389; Fox Sparrow, 1; Swamp Sparrow, 21; Song Sparrow, 118. **Total,** 75 species; about 24,553 individuals. (Seen in Tinicum Marshes Jan. 2, Snowy Owl, 1; Vesper Sparrow, 1—(R.F.M.—J. Harold Austin, John B. Austin, Mr. and Mrs. F. P. Corbett, Mr. and Mrs. V. A. Debes, Mr. and Mrs. John A. Gillespie, Thomas Harvey, R. P. Kroon, Richard F. Miller, Chas. E. Price, Jr., Mrs. Robert Robinson, Hugh A. Sargent, Paul Schwalbe, Bruce Oakley, James P. Rigby, Edward H. Rigby, E. H. Rigby, 3rd (Delaware Valley Ornithological Club).

102. Harrisburg, Pa. (Marsh Run, Pine Hill Arboretum, Susquehanna River; within prescribed radius; farmland 30%, town suburbs 15%, river and creek 20%, mixed woodland 15%, cattail marshes and alder-willow swamps 15%, old fields 5%).—Dec. 27; 7 a.m. to 5 p.m. Foggy, clearing

intermittently; temp. 44° to 47° to 52°; calm to SW wind, 5-6 m.p.h.; ground bare, streams open. Six observers in 3 parties. Total hours, 20¼ (19½ on foot, ¾ by car); total miles, 27 (19 on foot, 8 by car). Mallard, 17; Black Duck, 5; Red-tailed Hawk, 1; Rough-legged Hawk, 1; Sparrow Hawk, 1: Mourning Dove, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 6; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 23; Blue Jay, 1; Am. Crow, 67; Black-capped Chickadee, 89; Tufted Titmouse, 16; White-breasted Nuthatch, 7; Brown Creeper, 11; Winter Wren, 1; Carolina Wren, 7; Robin, 1; Eastern Bluebird, 21; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 1; Starling, 297; English Sparrow, 137; Red-wing, 52; Cardinal, 70; Pine Siskin, 3; Am. Goldfinch, 48; Slate-colored Junco, 168; Tree Sparrow, 151; White-throated Sparrow, 31; Song Sparrow, 31. **Total,** 33 species; 1274 individuals. (Seen in area Dec. 24, Gadwall, 2; Baldpate, 4; Am. Merganser, 7; Ring-necked Pheasant, 3; Evening Grosbeak, 28; Purple Finch, 1; Dec. 28, Pintail, 10; Red-shouldered Hawk, 1; Marsh Hawk, 1; Killdeer, 2; Herring Gull, 1; Horned Lark, 2; White-crowned Sparrow, 1—observed at close range.)—Wallace Cummings, Edward S. Frey, D. L. Knohr, Philip Myers, Jerome A. Reid, Evan Thomas.

103. Lancaster, Pa. (7½-mile radius from point 6 miles southwest of Lancaster; suburbs 5%, ponds and swamps 5%, farmland 15%, woodland along creeks and river 75%).—Dec. 31; 6 a.m. to 5 p.m. Clear, becoming partly cloudy in p.m.; temp. 18° to 40°; wind W, 1-7 m.p.h.; ground bare; water open. Sixteen observers in 6 parties. Total hours, 48; total miles, 165½ (128 by car, 37½ on foot). Great Blue Heron, 2; Whistling Swan, 6; Canada Goose, 12; Mallard, 439; Black Duck, 2456; Baldpate, 4; Pintail, 45; Scaup Duck (sp.), 6; Am. Golden-eye, 25; Buffle-head, 5; Old-squaw, 2; Ruddy Duck, 1; Am. Merganser, 91; Turkey Vulture, 10; Sharp-shinned Hawk, 1; Cooper's Hawk, 3; Red-tailed Hawk, 5; Red-shouldered Hawk, 4; Bald Eagle, 3 (1 partial albino—H.C.B., Jr., K.B.C., L.H.); Marsh Hawk, 3; Sparrow Hawk, 12; Ring-necked Pheasant, 26; Herring Gull, 101; Ring-billed Gull, 11; Mourning Dove, 21; Barn Owl, 5; Screech Owl, 1; Long-eared Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 5; Yellow-bellied Sapsucker, 1. Hairy Woodpecker, 3; Downy Woodpecker, 49; Horned Lark, 100; Blue Jay, 5; Am. Crow, 682; Fish Crow, 20; Black-capped Chickadee, 197; Tufted Titmouse, 80; White-breasted Nuthatch, 4; Brown Creeper, 28; House Wren, 1 (unmistakable, observed daily since Dec. 25—S.H.D., J.E.D.); Winter Wren, 13; Carolina Wren, 11; Catbird, 3; Brown Thrasher, 2; Robin, 3; Hermit Thrush, 4; Eastern Bluebird, 7; Golden-crowned Kinglet, 23; Am. Pipit, 55; Starling, 900; Myrtle Warbler, 6; English Sparrow, 448; Eastern Meadowlark, 1; Cardinal, 109; Evening Grosbeak, 10 (flocks of 4 and 6); Purple Finch, 2; Am. Goldfinch, 44; Eastern Towhee, 1; Savannah Sparrow, 1; Slate-colored Junco, 514; Tree Sparrow, 162; Field Sparrow, 7; White-crowned Sparrow, 3; White-throated Sparrow, 256; Fox Sparrow, 2; Song Sparrow, 142; Snow Bunting, 25 (C.F., R.M.). **Total,** 69 species; 7234 individuals. (Seen in area during count period: Common Loon, Horned Grebe, Green-winged Teal, Peregrine Falcon, Killdeer, Carolina Chickadee, Mockingbird, Cedar Waxwing, Red-wing, Purple Grackle, Brown-headed Cowbird, Swamp Sparrow.)—Mrs. J. W. Bingeman, Don Brackbill, H. C. Brown, Jr., K. B. Corbett, J. E. Dyke, S. H. Dyke, Carl Fasnacht, Mary Grebinger, Lloyd Hassel, Russell Markert, Margaret Rusk, Ruth Sener, Mr. and Mrs. C. Y. Tanger, H. R. Woerner, Walter Yohe (Lancaster County Bird Club).

104. Lewisburg, Pa. (northwest through Taylorville, south to Buffalo Road, east across Susquehanna River to Kincaid Swamp; north along river and southeast to Upper Marsh; back through Lewisburg and south along river circling north to Bucknell University campus; open farmland 30%, river and riverbank 12%, marshland 10%, deciduous woods, 38%, bushy fields 10%).—Jan. 2; 9:30 a.m. to 5:15 p.m. Fog early (could not see to get out earlier), misty all day, with sun trying to come out about 3 p.m.; temp. 36° to 44°; wind 1 m.p.h.; streams open, some slushy ice on swamps. Total hours, 7¾; total miles, 34 (30 in car, 4 on foot). Black Duck, 8; Am. Golden-eye, 2; Buffle-head, 3; Cooper's Hawk, 1; Rough-legged Hawk, 1; Sparrow Hawk, 2; Herring Gull, 2; Belted Kingfisher, 1; Hairy Woodpecker, 2; Downy Woodpecker, 22; Am. Crow, 850 (500 est., 350); Black-capped Chickadee, 66; Tufted Titmouse, 18; White-breasted Nuthatch, 21; Red-breasted Nuthatch, 1; Brown Creeper, 9; Robin, 2; Starling, 33; English Sparrow, 155; Eastern Meadowlark, 2; Brown-headed Cowbird, 4; Cardinal, 18; Am. Goldfinch, 6; Slate-colored Junco, 66; Tree Sparrow, 222; Song Sparrow, 8. **Total,** 26 species; about 1525 individuals. (Seen in area Dec. 27, Turkey Vulture, 2; Ring-Necked Pheasant, 2; Killdeer, 2; Barn Owl, 1; Winter Wren, 1.)—Hollis T. Ross.

105. Linesville, Pa. (7½-mile radius from point 2 miles southeast of Linesville center, including part of Ohio shore of Pymatuning Reservoir, and Conneaut Lake; lake shore 40%, swamp 10%, open fields 25%, towns 5%, mixed woods 20%).—Dec. 29; 8:30 a.m. to 4:45 p.m. Overcast in a.m., clear in p.m.; temp. 40°; wind N, 15 m.p.h.; ground bare; all water open. Four observers together. Total hours, 8½ (2 in car, 6½ on foot); total miles, 70 (6 on foot, 64 by car). Whistling Swan, 1; Canada Goose, 15; Mallard, 335; Black Duck, 12; Redhead, 7; Canvas-back, 3; Lesser Scaup Duck,, 3; Am. Golden-eye, 2; Buffle-head, 1; Ruddy Duck, 29; Hooded Merganser, 29; Am. Merganser, 18; Red-breasted Merganser, 1; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Am. Rough-legged Hawk, 1; Bald Eagle, 1; Marsh Hawk, 3; Sparrow Hawk, 1; Ring-necked Pheasant, 2; Am. Coot, 8; Herring

Gull, 3; Hairy Woodpecker, 3; Downy Woodpecker, 10; Blue Jay, 4; Am. Crow, 2; Black-capped Chickadee, 37; Tufted Titmouse, 5; White-breasted Nuthatch, 10; Brown Creeper, 4; Robin, 1; Starling, 3; English Sparrow, 28; Cardinal, 13; Slate-colored Junco, 10; Tree Sparrow, 61. **Total,** 38 species; 671 individuals. (Pileated Woodpecker seen near Meadville Dec. 30; Snowy Owls reported at Pymatuning.)—Sara E. Flaugh, Imogene White, Mr. and Mrs. Chester Pees (Meadville Bird and Tree Club).

106. Lititz, Pa. (center of Lititz in northern Lancaster County to 7 miles north, Hammer Creek Valley area and White Oak Pond; town suburbs 10%, deciduous farm woodlots 30%, pastures 60%).—Dec. 26; 8 a.m. to 3:30 p.m. Cloudy; temp. 38° at start, 58° at return; wind NE, 8-12 m.p.h.; ponds and creeks open. Ten observers in 3 parties. Total hours, 66; total miles, 48 (33 on foot, 15 by car). Mallard, 3; Turkey Vulture, 22; Sharp-shinned Hawk, 2; Cooper's Hawk, 2; Red-tailed Hawk, 3; Rough-legged Hawk, 2; Marsh Hawk, 2; Sparrow Hawk, 10; Ring-necked Pheasant, 94; Killdeer, 2; Mourning Dove, 7; Barn Owl, 1; Screech Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 14; Hairy Woodpecker, 4; Downy Woodpecker, 47; Blue Jay, 14; Am. Crow, 632; Black-capped Chickadee, 131; Tufted Titmouse, 24; White-breasted Nuthatch, 26; Brown Creeper, 6; Winter Wren, 2; Carolina Wren, 2; Brown Thrasher, 1; Eastern Bluebird, 14; Golden-crowned Kinglet, 2; Starling, 875; English Sparrow, 460; Eastern Meadowlark, 2; Cardinal, 44; Am. Goldfinch, 210; Slate-colored Junco, 135; Tree Sparrow, 280; White-throated Sparrow, 57; Song Sparrow, 55. **Total,** 37 species; 3189 individuals.—Barton Sharp, William Light, Ford Gochenaur, Robert Buch, Donald Wier, Charles Bowman, Charles Regennas, Betty Regennas, Paul Seaber, Paul Tomlinson (Lititz Bird Club).

107. New Bloomfield (Perry Co.), Pa. (area consisting of 65% farmland and 35% second-growth woodland, traversed by one small stream and no swamps).—Dec. 28; 6 a.m. to 4:30 p.m. Clear; temp. 25° to 45°; wind WNW, 18 m.p.h.; ground not frozen; no snow yet this year. Three observers working in 1 party. Total miles, 107 (95 by car, 12 on foot). Am. Merganser, 5; Red-tailed Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 5; Ruffed Grouse, 3; Screech Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 1; Downy Woodpecker, 3; Am. Crow, 288; Black-capped Chickadee, 42; Tufted Titmouse, 12; White-breasted Nuthatch, 1; Winter Wren, 1; Carolina Wren, 1; Eastern Bluebird, 6; Golden-crowned Kinglet, 2; Cedar Waxwing, 27; Starling, 160; English Sparrow, 203; Cardinal, 8; Am. Goldfinch, 54; Slate-colored Junco, 162; Tree Sparrow, 1; Song Sparrow, 3. **Total,** 25 species; 995 individuals.—John K. Soule, Frank E. Tressler, O. K. Stephenson.

108. Philadelphia Region, Pa. (7½-mile radius from Oak Lane Reservoir; downtown city and row homes 30%, suburbs 14%, creek valleys with deciduous woodland 14%, creek valleys with evergreen woodland 10%, open farmland and fallow fields 14%, horticultural nurseries 4%, city parks 7%, riverbanks 6%, fresh-water marsh 1%).—Dec. 26; 4:30 a.m. to 5:30 p.m. Overcast most of day; temp. 40° to 61°; wind S, 7.6 m.p.h. Forty-two observers in 18 parties. Total hours, 96 (68 on foot, 28 by car); total miles, 334 (125 on foot, 209 by car). Great Blue Heron, 1; Canada Goose, 14; Mallard, 90; Black Duck, 417; Pintail, 900 (est.); Am. Golden-eye, 3; Am. Merganser, 80 (est.); Sharp-shinned Hawk, 5; Cooper's Hawk, 9; Red-tailed Hawk, 9; Red-shouldered Hawk, 11; Rough-legged Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 17; Ring-necked Pheasant, 17; Killdeer, 110 (flock of 99 feeding in winter wheat field); Herring Gull, 1259 (1000 est. at regular winter roost at East Park Reservoir); Ring-billed Gull, 6; Mourning Dove, 21 (flock of 16 in honeysuckle thicket); Barn Owl, 3; Screech Owl, 2; Barred Owl, 2; Belted Kingfisher, 3; Yellow-shafted Flicker, 16; Hairy Woodpecker, 16; Downy Woodpecker, 94; Horned Lark, 4; Blue Jay, 129; Am. Crow, 614; Fish Crow, 1; Chickadee, 157 (mostly Black-capped, at least 15 Carolina); Tufted Titmouse, 331; White-breasted Nuthatch, 58; Red-breasted Nuthatch, 7; Brown Creeper, 14; Winter Wren, 9; Carolina Wren, 12; Mockingbird, 1; Catbird, 1; Robin, 9; Hermit Thrush, 2; Eastern Bluebird, 17; Golden-crowned Kinglet, 40; Ruby-crowned Kinglet, 6; Cedar Waxwing, 60; Starling, 2630 (est.; additional inestimable numbers occupy roosts on buildings in central city throughout winter); Myrtle Warbler, 3; English Sparrow, 605 (est.); Eastern Meadowlark, 2; Red-wing, 6; Purple Grackle, 15; Brown-headed Cowbird, 3; Cardinal, 123; Evening Grosbeak, 4; Purple Finch, 45; Pine Siskin, 10; Am. Goldfinch, 437; Eastern Towhee, 5; Savannah Sparrow, 3; Vesper Sparrow, 2; Slate-colored Junco, 553; Tree Sparrow, 221; Field Sparrow, 91; White-throated Sparrow, 425; Fox Sparrow, 15; Swamp Sparrow, 2; Song Sparrow, 112. **Total,** 68 species; about 9892 individuals.—J. Potter, F. McLaughlin, G. Regensburg, W. Wright, A. Taylor, B. and C. Wonderly, E. Choate, W. Jay, C. Ross, P. Seabury, H. and A. Donaghy, H. and M. Grossman, J. Sassa, J. McNeill, W. Wilson, C. and J. Lyman, G. Sivel, L. Reichle, G. Lokota, P. Metzger, Jr., C. Wurster, R. Champagne, M. McLenigan, L. Sparnaker, P. Street, C. McElvaine, T. Dehne, W. Nixon, C. Baumm, W. Osgood, M. and E. Butler, R. Sehl, W. Reynolds, E. Phillips, W. Yoder, J. Ettlinger, J. Tracy, E. Reimann (Delaware Valley Ornithological Club, Pennypack Valley Bird Club, Comstock Society, and Philadelphia Bird Club).

109. Pittsburgh, Pa. (city suburbs, Frick Park, Schenley Park, North Park, Castle Shannon, Forest Hills, Fox Chapel, McKeesport, Thornburg; deciduous wooded hillsides 40%, uncultivated fields 40%, lawns 20%).—Dec. 24; [time of starting and stopping not stated—Ed.]. Clear; temp. 27° to 45°; wind ESE, 2-7 m.p.h.; ground bare. Sixteen ob-

servers in 8 parties. Total hours, 20 (on foot); total miles, 21 (on foot). Mallard, 116; Black Duck, 3; Am. Merganser, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 38; Screech Owl, 3; Barred Owl, 1; Hairy Woodpecker, 7; Downy Woodpecker, 28; Am. Crow, 5; Black-capped Chickadee, 64; Tufted Titmouse, 46; White-breasted Nuthatch, 27; Brown Creeper, 5; Carolina Wren, 2; Robin, 3; Golden-crowned Kinglet, 1; Starling, 1144 (est.); English Sparrow, 328; Cardinal, 117; Am. Goldfinch, 30; Slate-colored Junco, 71; Tree Sparrow, 85; Song Sparrow, 19. **Total,** 26 species; about 2147 individuals.—Mrs. J. Bruce Paterson, W. E. Wright, Helen Blair, Allan Kirk, Joseph Wilkinson, L. K. Savage, John Mehner, Dorothy and Carl Auerswald, Comly B. Shoemaker, and friends [names not listed—Ed.]. (Audubon Society of Western Pennsylvania).

110. Reading, Pa. (circle with center 2 miles northeast of city; deciduous woodland 40%, open farmland 30%, lakes and ponds 10%, streams and river bottoms 10%, young pine plantation 10%).—Dec. 26; 8 a.m. to 4 p.m. Overcast, hazy, with rain in p.m.; temp. 40° at start, 54° at finish; wind NE, 5 m.p.h.; ground bare; lakes and ponds 30% frozen. Twenty-two observers in 6 parties. Total hours, 42; total miles, 125 (85 by car, 40 by foot). Great Blue Heron, 1; Black-crowned Night Heron, 1; Mallard, 866; Black Duck, 4500; Baldpate, 116; Pintail, 152; Green-winged Teal, 2; Shoveller, 4; Ring-necked Duck, 1; Am. Golden-eye, 2; Hooded Merganser, 4; Am. Merganser, 500; Sharp-shinned Hawk, 2; Cooper's Hawk, 3; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 6; Ruffed Grouse, 1; Bob-white, 8; Ring-necked Pheasant, 14; Am. Coot, 7; Herring Gull, 9; Ring-billed Gull, 1; Mourning Dove, 1; Belted Kingfisher, 13; Yellow-shafted Flicker, 13; Hairy Woodpecker, 2; Downy Woodpecker, 25; Blue Jay, 26; Am. Crow, 425; Fish Crow, 9; Black-capped Chickadee, 163; Tufted Titmouse, 47; White-breasted Nuthatch, 7; Brown Creeper, 27; Winter Wren, 3; Carolina Wren, 1; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 35; Golden-crowned Kinglet, 14; Ruby-crowned Kinglet, 4; Cedar Waxwing, 76; Starling, 441; English Sparrow, 228; Cardinal, 77; Purple Finch, 8; Am. Goldfinch, 110; Slate-colored Junco, 416; Tree Sparrow, 186; White-throated Sparrow, 53; Song Sparrow, 41. **Total,** 54 species; 8662 individuals.—Donald Berger, Robert Cooke, Ernest Christman, Richard Diener, Stuart Dreibelbis, Samuel Gundy, John Hand, Marvin Hepler, Edward Hill, Eugene Hollinger, Warren Kalbach, Elwood Manning, Paul Martin, Byron Nunemacher, Earl Poole, Robert Prutzman, Sr., Robert Prutzman, Jr., Rodney Rhodes, Arthur Sigman, Carl Stohler, Ira Weigley, Samuel Wishnieski (Baird Ornithological Club).

111. Richboro (Bucks Co.), Pa. (starting near Holland, along Ironworks Creek to reservoir dam and returning along Bristol Road; both sides of upper basin of reservoir, Ironworks Creek to headwaters south of Richboro; woodlands along Worthington Mill Road to covered bridge; Twining Road and Sackett's Ford Road near Rushland; Grenoble Station on both sides of Neshaminy Creek 2 miles downstream; Elliot Farm from Yellow House to railroad; open farmland 10%, hemlock and deciduous woodland 45%, brush-grown fields 40%, cattail and grassy lakeside marsh 5%).—Dec. 26; 7:45 a.m. to 4:30 p.m. Overcast in a.m. with light shower at 10 a.m., then clearing with wind W, 15-20 m.p.h.; temp. 40° to 60°; ground bare, thawed, drying; all water open. Eight observers in 3 parties in a.m., 7 observers in 3 parties in p.m. Total hours, 19 (on foot); total miles, 20 (on foot). Am. Egret, 1 [no details—Ed.]; Mallard, 210; Black Duck, 12; Baldpate, 19; Am. Merganser, 9; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 2; Sparrow Hawk, 9; Ring-necked Pheasant, 2; Herring Gull, 3; Mourning Dove, 6; Screech Owl, 1; Long-eared Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 31; Blue Jay, 4; Am. Crow, 600; Black-capped Chickadee, 34; Tufted Titmouse, 32; White-breasted Nuthatch, 22; Carolina Wren, 1; Robin, 1; Eastern Bluebird, 2; Ruby-crowned Kinglet, 4; Starling, 140; English Sparrow, 30; Eastern Meadowlark, 4; Cardinal, 12; Am. Goldfinch, 14; Slate-colored Junco, 131; Tree Sparrow, 215; White-throated Sparrow, 50; Song Sparrow, 53; Snow Bunting, 11. **Total,** 37 species; 1675 individuals. (Seen in area Dec. 25, Turkey Vulture, 1; Dec. 27, Eastern Phoebe, 1; Dec. 31, Common Loon, 1; Pintail, 50; Ruddy Duck, 1; Marsh Hawk, 2; Osprey, 2 [no details—Ed.]; Short-eared Owl, 2; Brown Creeper, 3; Jan. 1, Shoveller, 2; Am. Pipit, 7; Jan. 2, Bald Eagle, 1.)—Pauline Buckingham, A. Herzog, D. Jarden, L. J. McConnell, Ida McConnell, E. A. Rhine, G. Riley, L. S. Thomas, R. Thomas, E. H. Traub (Neshaminy Valley Nature Club).

112. Scranton, Pa. (from city to point 12 miles northeast; Susquehanna River Valley to Falls, Pa., Newton to Dalton and adjacent area; open farmland 50%, suburbs 30%, deciduous and evergreen woodland 20%).—Dec. 26; 8:30 a.m. to dusk. Low overcast in a.m., rain starting at 3 p.m.; wind SW to W to N, 8-12 m.p.h.; ground bare. Eleven observers in 2 parties. Total hours, 15; total miles, 85 (10 on foot, 75 by auto). Black Duck, 20; Mallard, 3; Am. Merganser, 3; Ruffed Grouse, 2; Ring-necked Pheasant, 10; Horned Owl, 1; Belted Kingfisher, 1; Hairy Woodpecker, 2; Downy Woodpecker, 6; Blue Jay, 5; Am. Crow, 39; Black-capped Chickadee, 108; Tufted Titmouse, 2; White-breasted Nuthatch, 7; Brown Creeper, 2; Winter Wren, 1; Brown Thrasher, 1; Ruby-crowned Kinglet, 2 (E.W.); Starling, 138; Pine Siskin, 2; Am. Goldfinch, 65; English Sparrow, 180; Cardinal, 21; Purple Grackle, 1; Slate-colored Junco, 62; Tree Sparrow, 52; White-throated Sparrow, 1; Song Sparrow, 8. **Total,** 28 species; 745 individuals. (Seen in area Dec. 25, Pileated Woodpecker.)—Mr. and

Mrs. F. H. Coffin, M. J. Kelly, H. R. Jones, Ed Williams, Paul and Kenneth Widdall, Ronald and David Wharton, Eugene Marmo, Mrs. J. W. Martin (Scranton Bird Club).

113. State College, Pa. (college campus, farms, town, and feeding stations, farms and woodlots in surrounding country, pond and stream with cattail marshes east of town, Spring Creek valley from Oak Hall to Rock, Bear Meadows and edge of mountains from Shingletown to Musser Gap; town and campus 25%, farmland 23%, pond and cattail marshes 10%, woodlots 12%, stream valley 12%, mixed deciduous and coniferous forest 18%).—Dec. 30; 8 a.m. to 5:30 p.m. Clear; temp. 15° to 31°; wind NE, 1-7 m.p.h.; ground bare; streams open. Ten observers, 2 alone and 8 in 3 parties; 1 man cruised countryside by car, other observers mostly on foot. Total hours, 40 (32 on foot, 8 by car); total miles, 165 (30 on foot, 135 by car). Am. Bittern, 1 (observed regularly between Dec. 1 and 30); Mallard, 6; Cooper's Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 7; Ruffed Grouse, 7; Killdeer, 2; Wilson's Snipe, 1; Horned Owl, 2; Snowy Owl, 1 (5 killed here during Dec.); Short-eared Owl, 1; Pileated Woodpecker, 5; Red-headed Woodpecker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 7; Horned Lark, 8; Blue Jay, 5; Am. Crow, 52; Black-capped Chickadee, 76; Tufted Titmouse, 18; White-breasted Nuthatch, 28; Brown Creeper, 1; Winter Wren, 3; Robin, 2; Golden-crowned Kinglet, 6; Cedar Waxwing, 98; Starling, 167; English Sparrow, 243; Cardinal, 23; Evening Grosbeak, 22; Am. Goldfinch, 23; Slate-colored Junco, 152; Tree Sparrow, 163; White-throated Sparrow, 6; Song Sparrow, 12. **Total,** 35 species; 1157 individuals.—Haskell B. Curry, Mrs. Arthur Cowell, David Cowell, Mr. and Mrs. Bruce Dowling, Leon Hue, Alfred E. Smalley, Mrs. C. J. Rowland, Ward M. Sharp, William S. Clarke, Jr. (State College Bird Club).

114. Warren, Pa. (center of town to point 6 miles north, along Conewango Creek, to Dougherty Run and Rhine Run area; Allegheny River region 3-4 miles west of town; mature deciduous woodland 40%, open farmland and upland fields 30%, town suburbs 10%, river and creek bottomlands 20%).—Dec. 26; 8 a.m. to 4:30 p.m. Overcast to light rain in p.m.; temp. 40° to 48°; wind SE, 8-10 m.p.h.; ground bare; all streams open. Two observers together. Total hours, 8 (on foot); total miles, 12 (on foot). Cooper's Hawk, 1; Sparrow Hawk, 1; Ruffed Grouse, 2; Downy Woodpecker, 9; Blue Jay, 2; Am. Crow, 4; Black-capped Chickadee, 42; White-breasted Nuthatch, 6; Red-breasted Nuthatch, 1; Brown Creeper, 2; Winter Wren, 1; Starling, 24; English Sparrow, 23; Cardinal, 11; Am. Goldfinch, 3; Slate-colored Junco, 26; Tree Sparrow, 52; Song Sparrow, 5. **Total,** 18 species; 215 individuals. (Seen in area Dec. 24, Tufted Titmouse, 6; Dec. 29, Pied-billed Grebe, 2; Dec. 30, Pileated Woodpecker, 1; Jan. 2, Evening Grosbeak, 47.)—Harris E. Johnson, Thomas M. Hampson.

115. West Chester, Pa. (7½-mile radius; open farmland 55%, overgrown fields 20%, deciduous woods 20%, mixed evergreen planting 2%, serpentine barrens 1%, town suburbs 2%).—Dec. 27; 7 a.m. to 5:30 p.m. Light rain with fog until 11 a.m., heavily overcast thereafter; temp. 55° to 59°; wind SW, 1 m.p.h. in p.m. only; no ice or snow. Forty observers in 18 parties. Total hours, 90½ (71½ on foot, 19 by car); total miles, 275 (65½ on foot, 209½ by car). Pied-billed Grebe, 1 (Martin); Great Blue Heron, 11; Canada Goose, 14; Mallard, 270; Black Duck, 346; Baldpate, 1 (Newman); Pintail, 1 (Martin); Wood Duck, 1 (James); Ring-necked Duck, 37; Ruddy Duck, 3 (Martin, Newman); Am. Merganser, 51; Turkey Vulture, 17; Sharp-shinned Hawk, 2; Red-tailed Hawk, 6; Red-shouldered Hawk, 1; Marsh Hawk, 6; Sparrow Hawk, 11; Ring-necked Pheasant, 17; Killdeer, 3; Herring Gull, 2; Ring-billed Gull, 1; Mourning Dove, 139; Horned Owl, 1; Long-eared Owl, 1; Belted Kingfisher, 20; Yellow-shafted Flicker, 18; Red-bellied Woodpecker, 3; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 8; Downy Woodpecker, 73; Eastern Phoebe, 2; Horned Lark, 45; Blue Jay, 231; Am. Crow, 625; Black-capped Chickadee, 225; Carolina Chickadee, 37; Tufted Titmouse, 121; White-breasted Nuthatch, 37; Brown Creeper, 19; Winter Wren, 6; Carolina Wren, 11; Catbird, 1 (Cheyney); Robin, 13; Eastern Bluebird, 57; Golden-crowned Kinglet, 38; Ruby-crowned Kinglet, 2; Cedar Waxwing, 3; Starling, 1102; Myrtle Warbler, 8; English Sparrow, 646; Eastern Meadowlark, 22; Red-wing, 5; Rusty Blackbird, 2; Purple Grackle, 7; Cardinal, 119; Purple Finch, 16; Am. Goldfinch, 207; Eastern Towhee, 1; Savannah Sparrow, 1 (Martin); Slate-colored Junco, 863; Tree Sparrow, 285; Field Sparrow, 15; White-throated Sparrow, 276; Fox Sparrow, 1 (Marshall); Song Sparrow, 232. **Total,** 65 species; 6347 individuals. (In territory Dec. 25, Red-breasted Nuthatch; Jan. 1, Mockingbird. Many observers reported *Hyla crucifer* calling throughout day.)—Rev. and Mrs. John H. Leitch, Mr. and Mrs. C. L. Bryan, Mrs. Laura W. Abbott, Horace H. Way, Arthur Hoopes, Mrs. Helen I. Fletcher, Helen and Gertrude Rhoads, Esther Baldwin, Marian Cheyney, Mrs. Lewis Marshall, Pauline Ramstine, Anna and Florence James, Mrs. Joseph Cope, Arthur Sigman, Frederick, Sarah, and Nancy Swan, Walter and Christopher White, Margaret S. Goodwin, Mrs. Ruth W. Corbett, Mrs. Abner Few, Mary Way, Mary L. Thomas, Paul Martin, William Heed, Francis and Richard Newman, Thomas Morgan, Martha and Shippen Willing, Mrs. Isaac G. Roberts, Alice W. Swayne, Joanna and Martha Bucknell, Albert E. Conway (West Chester Bird Club).

116. Wyncote, Pa. (to Baederwood, Brier-Bush, Trevose, Chestnut Hill; deciduous woods 45%, brushy fields 25%, town suburbs 25%, farmland 5%).—Dec. 26; 7 a.m. to 4 p.m. Cloudy; temp. 36° to 57°; wind SE, 1-5 m.p.h.; ground bare. Twenty-six observers, 20 afield in 8 parties, others at 6 sanc-

tuaries and feeding stations. Total hours, 45 (36 afoot, 9 by car); total miles, 70 (30 afoot, 40 by car). Mallard, 5; Sharp-shinned Hawk, 1; Cooper's Hawk, 4; Red-tailed Hawk, 1; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 4; Ring-necked Pheasant, 27; Herring Gull, 2; Mourning Dove, 19; Screech Owl, 1; Long-eared Owl, 4; Yellow-shafted Flicker, 10; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 11; Downy Woodpecker, 74; Blue Jay, 64; Am. Crow, 632+; Black-capped Chickadee, 74; Tufted Titmouse, 117; White-breasted Nuthatch, 46; Red-breasted Nuthatch, 2; Brown Creeper, 6; Winter Wren, 2; Carolina Wren, 5; Brown Thrasher, 1 (wintering at a Glenside feeding station); Robin, 4 (3 different places); Hermit Thrush, 1; Eastern Bluebird, 14 (4 places); Golden-crowned Kinglet, 13; Ruby-crowned Kinglet, 3; Cedar Waxing, 36 (1 flock); Starling, 465+; English Sparrow, 430+; Eastern Meadowlark, 1; Cardinal, 40; Purple Finch, 5; Am. Goldfinch, 47; Eastern Towhee, 9 (2 places); Slate-colored Junco, 528; Tree Sparrow, 230; Field Sparrow, 33; White-throated Sparrow, 372; Song Sparrow, 43. **Total,** 44 species; 3391+ individuals.—Charles Bay, Andrew Boissevain, Mrs. William Custer, Mr. and Mrs. F. Dievler, Mr. and Mrs. John Dornan, Mr. and Mrs. T. R. Frank, Mr. and Mrs. E. S. Griscom, Jay V. Hare, John Holmes, Richard Lord, Fred Mears, Mr. and Mrs. Arnold Moore, Philip Moore, William Pepper, Jr., Frank Ramsey, Mrs. Frank Rossiter, Mrs. Chas. Rowland, Jay Schnell, Mrs. Carl Sievert, Curtis Sooy, Mrs. Harry Wright (Wyncote Bird Club).

117. York, Pa. (approximately same area as in 6 previous years; town suburbs, fields, and countryside from York east to Susquehanna River, from 2 to 5 miles north and 2½ miles south; open farmland 50%, deciduous farm woodlots 10%, marshy meadow 5%, woodland and fields along river 30%, town suburbs 5%).—Dec. 31; dawn to dusk. Clear; temp. 24° to 40°; wind SSE, 1-7 m.p.h.; ground bare; small streams frozen, ice along edge of Susquehanna River. Twenty-two observers in 10 parties. Total hours, 45 (32 on foot, 13 in cars); total miles, 123 (29 on foot, 94 by car). Common Loon, 2; Whistling Swan, 6; Canada Goose, 2; Mallard, 16; Black Duck, 630; Am. Golden-eye, 49; Buffle-head 10; Am. Merganser, 15; Red-breasted Merganser, 3; Turkey Vulture, 1; Sharp-shinned Hawk, 3; Red-tailed Hawk, 1; Red-shouldered Hawk, 3; Rough-legged Hawk, 1; Bald Eagle, 2; Marsh Hawk, 1; Osprey, 1 [no details—Ed.]; Sparrow Hawk, 6; Bob-white, 1; Ring-necked Pheasant, 1; Killdeer, 12; Wilson's Snipe, 9; Herring Gull, 17; Ring-billed Gull, 7; Mourning Dove, 2; Barn Owl, 1; Yellow-shafted Flicker, 4; Hairy Woodpecker, 5; Downy Woodpecker, 27; Blue Jay, 19; Am. Crow, 2641; Fish Crow, 8; Black-capped Chickadee, 102; Carolina Chickadee, 2 (observed at arm's length); Tufted Titmouse, 66; White-breasted Nuthatch, 4; Brown Creeper, 14; Carolina Wren, 17; Mockingbird, 4; Catbird, 2; Hermit Thrush, 1; Golden-crowned Kinglet, 4; Starling, 7646 (7000+1000, 646); Myrtle Warbler, 1; English Sparrow, 625; Eastern Meadowlark, 2; Cardinal, 96; Evening Grosbeak, 3; Purple Finch, 2; Am. Goldfinch, 100; Eastern Towhee, 2; Slate-colored Junco, 120; Tree Sparrow, 38; Field Sparrow, 5; White-crowned Sparrow, 1; White-throated Sparrow, 93; Swamp Sparrow, 1; Song Sparrow, 39. **Total,** 58 species; about 12,493 individuals. (Great Blue Heron and Ruby-crowned Kinglet observed Dec. 24; Snowy Owl and Old-squaw also seen in area but not on Dec. 31).—Elaine G. Tompkins, M. Dorothy Schwartzer, Anna C. Reinecker, Ann Jamison, Mary E. Bortner, Marian Nisbet, Dorothy Dressler, Reda Mae Myers, Elizabeth Bilger, Mary E. Nieman, Sara Ross Smith, Sylvia Yeager, Alberta Etters, Mrs. J. T. Yoder, Alma Bigler, Verna M. Dietz, Jay. H. Arnold, Ross B. Bigler, Ronald Billet, Ronald Eichelberger, Lloyd Etters, Viola V. Dietz (York County Bird Club).

118. Bombay Hook National Wildlife Refuge (Kent Co.), Del. (15-mile circle, Woodland Beach to Pickering Beach along Delaware Bay; Moore Pond and Lake Como bordering on the west, with the refuge itself as a nucleus; bay 20%, marshes 15%, pine and deciduous woods 10%, lakes and ponds 5%, rivers and creeks 3%, farmland 47%).—Dec. 26; 5 a.m. to 5 p.m. Clear, temp. 44° at start, 51° at return; wind WSW, 12 m.p.h. Twenty-one observers in 8 parties. Total hours, 65 (57 afoot, 5 by car, 3 by boat); total miles, 180 (51 afoot, 94 by car, 35 by boat). Pied-billed Grebe, 6; Great Blue Heron, 25; Black-crowned Night Heron, 2; Canada Goose, 103; Snow Goose, 12,000 (1 flock); Mallard, 136; Black Duck, 1689; Gadwall, 404; Baldpate, 32; Pintail, 158; Green-winged Teal, 493; Blue-winged Teal, 1 (C.P., P.S.—♀ size, large blue shoulder-patches, etc.); Shoveller, 181; Ring-necked Duck, 1; Greater Scaup Duck, 8; Lesser Scaup Duck, 260; Am. Golden-eye, 5; White-winged Scoter, 2; Surf Scoter,1; Ruddy Duck, 28; Hooded Merganser, 317; Am. Merganser, 602; Turkey Vulture, 349; Black Vulture, 12; Sharp-shinned Hawk, 4; Cooper's Hawk, 3; Red-tailed Hawk, 29; Red-shouldered Hawk, 4; Rough-legged Hawk, 12; Bald Eagle, 12; Marsh Hawk, 64; Peregrine Falcon, 4; Sparrow Hawk, 71; Bob-white, 23; Am. Coot, 15; Killdeer, 35; Black-bellied Plover, 1; Wilson's Snipe, 4; Greater Yellow-legs, 2; Red-backed Sandpiper, 20; Great Black-backed Gull, 4; Herring Gull, 143; Ring-billed Gull, 18; Mourning Dove, 157; Barn Owl, 2; Screech Owl, 1; Short-eared Owl, 1; Long-eared Owl, 3; Horned Owl, 3; Belted Kingfisher, 3; Yellow-shafted Flicker, 31; Red-bellied Woodpecker, 19; Hairy Woodpecker, 6; Downy Woodpecker, 34; Western Kingbird, 1 (D.C., T.B., M.W.—size of Crested, gray back, black tail with narrow outer white tail feathers, dull yellow underparts); Eastern Phoebe, 9; Horned Lark, 171; Blue Jay, 32; Am. Crow, 7395; Fish Crow, 71; Carolina Chickadee, 71; Tufted Titmouse, 32; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 2; Brown Creeper, 7; Winter Wren, 7; Carolina Wren, 17; Long-billed Marsh Wren, 1; Short-billed Marsh

Wren, 1; Mockingbird, 17; Brown Thrasher, 1; Robin, 24; Hermit Thrush, 2; Eastern Bluebird, 56; Golden-crowned Kinglet, 18; Ruby-crowned Kinglet, 1; Am. Pipit, 12; Cedar Waxwing, 3; Starling, 3432; Myrtle Warbler, 78; English Sparrow, 225; Eastern Meadowlark, 210; Red-wing, 18,126; Rusty Blackbird, 4; Purple Grackle, 3080; Brown-headed Cowbird, 132; Cardinal, 43; Pine Siskin, 4; Am. Goldfinch, 201; Eastern Towhee, 6; Ipswich Sparrow, 1; Savannah Sparrow, 11; Vesper Sparrow, 1; Slate-colored Junco, 105; Tree Sparrow, 245; Field Sparrow, 16; White-throated Sparrow, 214; Fox Sparrow, 10; Swamp Sparrow, 24; Song Sparrow, 64. **Total,** 100 species; about 51,726 individuals.—Jack Arnett, Trusten Baldwin, Henry Bush, Walter Corson, David Cutler, Betty Cutler, Herbert Cutler, Edwin Finkel, Leonard Fonaroff, Otto Gardner, Harry Goldstein, Evelyn Kramer, Quintin Kramer, Robert Newman, Donald Ottenberg, Charles Price, Bromley Satterthwaite, Paul Schwalbe, Allen Stokes, Donald Stone, Morris Weiss (Delaware Valley Ornithological Club).

119. Accokeek, Md. (east side of Potomac just below mouth of Piscataway Creek, Mockley Point to Brian's Point; area of about 2 square miles comprising river front, cultivated river flat, wooded creek bottom, wooded swamp, cattail marsh, border of adjacent wooded upland, and upland farm, covered intensively on foot).—Dec. 27; 8 a.m. to 4:45 p.m. Heavy clouds, partially clearing after 2:30; temp. 55° at start, 63° at 1 p.m. and at end; wind S, gusty after 10 a.m., up to 30 m.p.h.; ground bare; water open. Four observers singly or in pairs. Total hours, 23; total miles, 16 (on foot). Mallard, 16; Black Duck, 50; Canvas-back, 1; Am. Merganser, 20; Turkey Vulture, 15; Black Vulture, 16; Sharp-shinned Hawk, 2; Red-tailed Hawk, 2; Red-shouldered Hawk, 3; Bald Eagle, 10; Sparrow Hawk, 2; Bob-white, 35; Killdeer, 16; Herring Gull, 3; Ring-billed Gull, 15; Mourning Dove, 40; Barred Owl, 1; Yellow-shafted Flicker, 14; Pileated Woodpecker, 1; Red-bellied Woodpecker, 14; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 5; Downy Woodpecker, 30; Blue Jay, 20; Am. Crow, 30; Carolina Chickadee, 35; Tufted Titmouse, 25; Red-breasted Nuthatch, 2; Brown Creeper, 4; Winter Wren, 4; Carolina Wren, 30; Mockingbird, 11; Hermit Thrush, 1; Eastern Bluebird, 18; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 1; Starling, 55; English Sparrow, 20; Eastern Meadowlark, 45; Red-wing, 45; Cardinal, 40; Purple Finch, 45; Am. Goldfinch, 60; Savannah Sparrow, 2; Slate-colored Junco, 250; Tree Sparrow, 14; Field Sparrow, 40; White-throated Sparrow, 35; Swamp Sparrow, 3; Song Sparrow, 40; **Total,** 50 species; about 1192 individuals.—A. A. Baker, Edwin, T. McKnight, Thomas B. Nolan, W. W. Rubey.

120. Allegany County, Md. (7½-mile radius centered 2 miles north-northeast of Spring Gap and including Wills, Nicholas, Collier and Warrior Mountains, the city of Cumberland, Braddock Run from Allegany Grove to the Potomac, and the Potomac River from Pinto to the mouth of South Branch below Oldtown; elevation 540 to 1680 feet; Potomac bottomland 45%, deciduous woods 40%, coniferous woods 5%, agricultural areas 10%).—Dec. 31; 6:15 a.m. to 4:55 p.m. Clear; temp. 25° to 52°; wind SW, 0-5 m.p.h.; ground bare; all water open. Ten observers in 5 parties. Total hours, 35 (29 on foot, 6 by car); total miles, 190 (26 on foot, 164 by car). Black Duck, 31; Wood Duck, 2; Turkey Vulture, 3; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 7; Ruffed Grouse, 1; Screech Owl, 1; Horned Owl, 1; Barred Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 1; Pileated Woodpecker, 4; Hairy Woodpecker, 3; Downy Woodpecker, 36; Blue Jay,1; Am. Crow, 389; Black-capped Chickadee, 104; Tufted Titmouse, 84; White-breasted Nuthatch, 16; Red-breasted Nuthatch, 1; Brown Creeper, 8; Winter Wren, 3; Carolina Wren, 28; Mockingbird, 1; Robin, 4; Hermit Thrush, 1; Eastern Bluebird, 37; Golden-crowned Kinglet, 3; Cedar Waxwing, 2; Loggerhead Shrike, 2; Starling, 621; English Sparrow, 220; Red-wing, 43; Rusty Blackbird, 20; Cardinal, 171; Purple Finch, 72; Am. Goldfinch, 62; Slate-colored Junco, 277; Tree Sparrow, 540; Field Sparrow, 29; White-crowned Sparrow, 10 (L.M.L.); White-throated Sparrow, 12; Swamp Sparrow, 1; Song Sparrow, 100. **Total,** 46 species; 2959 individuals. (Bob-white seen during the week.)—Kendrick Y. Hodgdon, Donald W. Lamm, Leonard M. Llewellyn, Seth H. Low, Mr. and Mrs. Gilbert Miller, Bernie Miller, Harry Miller, Fred M. Packard, Chandler S. Robbins (Allegany County Bird Club).

121. Catoctin Mountain, Md. (7½-mile radius centered 1.3 miles west of Thurmont on State Route 77, and including Wolfsville, Edgemont, Quirock Mt., Blue Ridge Summit, and Monocacy River from Six Bridge to Lewistown; elevation 270 to 2140 feet; upland deciduous woodland 50%, Monocacy River flood plain 10%, agricultural areas 40%).—Jan. 2; 6.45 a.m. to 6 p.m. Occasional light rain in a.m., clear in p.m.; temp. 40° to 50°; calm; ground bare; all ponds open. Eleven observers in 4 parties. Total hours, 36 (25 on foot, 11 by car); total miles, 217 (22 on foot, 195 by car). Mallard, 11; Black Duck, 17; Am. Merganser, 8; Turkey Vulture, 21; Cooper's Hawk, 2; Red-tailed Hawk, 7; Red-shouldered Hawk, 3; Rough-legged Hawk, 2; Marsh Hawk, 9; Sparrow Hawk, 10; Ruffed Grouse, 1; Bob-white, 1; Mourning Dove, 12; Horned Owl, 1; Barred Owl, 1; Yellow-shafted Flicker, 12; Red-bellied Woodpecker, 4; Hairy Woodpecker, 5; Downy Woodpecker, 54; Blue Jay, 14; Am. Crow, 1106; Fish Crow, 1 (C.S.R.); Black-capped Chickadee, 85; Carolina Chickadee, 83; Tufted Titmouse, 56; White-breasted Nuthatch, 15; Red-breasted Nuthatch, 1; Brown Creeper, 15; Winter Wren, 5; Carolina Wren, 26; Mockingbird, 7; Eastern Bluebird, 22; Golden-crowned Kinglet, 8; Ruby-crowned Kinglet, 1 (F.M.P.); Starling, 1432; Myrtle Warbler, 3; English Sparrow, 544; Eastern Meadowlark, 15;

Red-wing, 25; Purple Grackle, 1; Cardinal, 129; Purple Finch, 1; Am. Goldfinch, 14; Slate-colored Junco, 580; Tree Sparrow, 249; Field Sparrow, 20; White-crowned Sparrow, 15 (1 flock—C.S.R.); White-throated Sparrow, 47; Swamp Sparrow, 1; Song Sparrow, 67. **Total,** 50 species; 4769 individuals.—Florence H. Burner, Orville W. Crowder, William B. Green, Donald W. Lamm, Seth H. Low, William McHoul, Fred M. Packard, Chandler S. Robbins, Mrs. R. S. Stauffer, Martha Stauffer, Jack Weaver (Maryland Ornithological Society).

122. Chase (Baltimore County), Md. (west shore of Chesapeake Bay, Middle River to north shore of Gunpowder River, inland to B & O Railroad; habitats as described in 1948).—Dec. 31; 7:45 a.m. to 5 p.m. Clear; temp. 28° to 41°; wind variable, N to E, 1-10 m.p.h.; ground bare; no ice on creeks. Twenty observers in 4 parties. Total hours, 26 (afoot); total miles, 21 (afoot). Whistling Swan, 1243; Canada Goose, 1; Mallard, 28; Black Duck, 582; Baldpate, 1119; Pintail, 2; Redhead, 99; Canvas-back, 90; Scaup Duck (sp.), 836; Am. Golden-eye, 8; Buffle-head, 1; Ruddy Duck, 7; Hooded Merganser, 1; Am. Merganser, 19; Turkey Vulture, 53; Black Vulture, 2; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 5; Red-shouldered Hawk, 1; Bald Eagle, 10; Marsh Hawk, 9; Pigeon Hawk, 1 (observed at 100 ft. with 10X glass, noting falcon shape and banded tail—P.H., E.H.L.); Sparrow Hawk, 3; Am. Coot, 8050 (est.); Killdeer, 53; Herring Gull, 79; Ring-billed Gull, 578; Mourning Dove, 15; Belted Kingfisher, 2; Yellow-shafted Flicker, 16; Red-bellied Woodpecker, 4; Hairy Woodpecker, 4; Downy Woodpecker, 16; Horned Lark (Prairie), 2; Blue Jay, 10; Am. Crow, 72; Fish Crow, 4; Carolina Chickadee, 72; Tufted Titmouse, 34; White-breasted Nuthatch, 4; Brown Creeper, 13; Winter Wren, 4; Carolina Wren, 9; Long-billed Marsh Wren, 3; Mockingbird, 2; Robin, 1; Hermit Thrush, 2; Eastern Bluebird, 9; Golden-crowned Kinglet, 24; Ruby-crowned Kinglet, 3; Cedar Waxwing, 2; Starling, 133; Myrtle Warbler, 26; English Sparrow, 40; Eastern Meadowlark, 11; Red-wing, 18; Purple Grackle, 5; Cardinal, 59; Am. Goldfinch, 166; Eastern Towhee, 1; Slate-colored Junco, 168; Tree Sparrow, 26; Field Sparrow, 2; White-throated Sparrow, 137; Swamp Sparrow, 8; Song Sparrow, 39. **Total,** 67 species; about 14,018 individuals.—Robert M. Bowen, Orville W. Crowder, Ira Dinkle, Betty Dinkle, Pearl Heaps, Duvall Jones, Edward H. LaFleur, Ruth Lenderking, Mrs. Carl Lubbert, Joyce Lubbert, William McHoul, Harry Myrick, A. O. Ramsay, Bert Ramsay, Evans Roberts, Andrew Simon, Stephen Simon, Frank H. Sommer, Jr., Jack Weaver, Edwin Willis (Maryland Ornithological Society).

123. Crisfield (Somerset Co.), Md. (7½-mile radius centered 1½ miles east-southeast of Marion, and including Fairmount, Westover, the lower Pocomoke River, Pocomoke Sound, and Big Annemessex River; maximum elevation 22 ft.; brackish and salt marsh 25%, cypress swamp 20%, agricultural areas 20%, loblolly pine 15%, deciduous and coniferous brush 10%, bays and estuaries 10%).—Dec. 26; 8:10 a.m. to 5:30 p.m. Partly cloudy; temp. 43° to 66°; wind SE, 5-15 m.p.h.; ground bare; all water open. Nine observers in 4 parties. Total hours, 33 (15 on foot, 7 in canoe, 11 in car); total miles, 141 (21 on foot, 10 by canoe, 110 by car). Horned Grebe, 48; Great Blue Heron, 2; Am. Bittern, 2; Canada Goose, 1; Brant, 50; Mallard, 31; Black Duck, 140; Pintail, 1; Green-winged Teal, 12; Wood Duck, 2; Redhead, 2; Canvas-back, 1; Scaup Duck (sp.), 2; Am. Golden-eye, 42; Bufflehead, 32; Old-squaw, 23; White-winged Scoter, 40; Surf Scoter, 11; Ruddy Duck, 1; Am. Merganser, 2; Red-breasted Merganser, 10; Turkey Vulture, 400; Sharp-shinned Hawk, 4; Cooper's Hawk, 8; Red-tailed Hawk, 12; Red-shouldered Hawk, 3; Rough-legged Hawk, 2; Bald Eagle, 7; Marsh Hawk, 31; Sparrow Hawk, 14; Bob-white, 13; Clapper Rail, 1; Killdeer, 27; Wilson's Snipe, 3; Greater Yellow-legs, 2; Red-backed Sandpiper, 13; Herring Gull, 53; Ring-billed Gull, 102; Mourning Dove, 12; Belted Kingfisher, 3; Yellow-shafted Flicker, 18; Pileated Woodpecker, 5; Red-bellied Woodpecker, 4; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 8; Eastern Phoebe, 1; Horned Lark, 12; Blue Jay, 6; Am. Crow, 162; Fish Crow, 34; Carolina Chickadee, 58; Tufted Titmouse, 23; White-breasted Nuthatch, 6; Brown-headed Nuthatch, 13; Brown Creeper, 7; Winter Wren, 4; Carolina Wren, 30; Long-billed Marsh Wren, 2; Short-billed Marsh Wren, 3; Mockingbird, 9; Catbird, 5; Brown Thrasher, 1; Robin, 36; Hermit Thrush, 10; Eastern Bluebird, 59; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 1; Am. Pipit, 30; Cedar Waxwing, 17; Loggerhead Shrike, 1; Starling, 2250; Myrtle Warbler, 528; English Sparrow, 57; Eastern Meadowlark, 186; Red-wing, 6970; Rusty Blackbird, 12; Boat-tailed Grackle, 45; Purple Grackle, 477; Brown-headed Cowbird, 30; Cardinal, 62; Purple Finch, 10; Am. Goldfinch, 69; Eastern Towhee, 4; Savannah Sparrow, 36; Sharp-tailed Sparrow, 1; Slate-colored Junco, 40; Tree Sparrow, 1; Field Sparrow, 58; White-throated Sparrow, 232; Fox Sparrow, 8; Swamp Sparrow, 31; Song Sparrow, 83. **Total,** 93 species; 12,927 individuals.—Ernest G. Baldwin, Robert Bartl, Orville W. Crowder, Edwin G. Davis, Thomas W. Donnelly, William McHoul, Chandler, S. Robbins, Robert E. Stewart, John E. Willoughby.

124. Garrett County, Md. (7½-mile radius centered 1¼ miles north-northeast of McHenry, and including Friendsville, Bear Creek, Accident, Bittinger, Deep Creek Lake, Swallow Falls, and the northeastern part of Cranesville bog; a representative section of the Allegheny Plateau, altitudes mostly 2300 to 2700 ft., extremes 1480 and 3020; upland coniferous woodland 35%, deciduous woodland 30%, coniferous bogs 10%, agricultural areas 20%, lake 5%).—Jan. 1; 6:45 a.m. to 4 p.m. Occasional rain in a.m., clear in p.m.; temp. 40° to 52°; calm in a.m., wind SW, 5 m.p.h. in p.m.; ground

bare, very little snow having fallen in November and December; lake 1/4 open, but had previously been frozen. Six observers working mostly in 3 parties. Total hours, 22 (17 on foot, 5 in car); total miles, 124 (18 on foot, 106 by car). Pied-billed Grebe, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 3; Ruffed Grouse, 7; Screech Owl, 1; Horned Owl, 9; Barred Owl, 1; Pileated Woodpecker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 4; Blue Jay, 21; Am. Crow, 29; Black-capped Chickadee, 81; Tufted Titmouse, 2; White-breasted Nuthatch, 4; Red-breasted Nuthatch, 3; Brown Creeper, 1; Carolina Wren, 1; Eastern Bluebird, 2; Golden-crowned Kinglet, 11; Starling, 54; English Sparrow, 89; Eastern Meadowlark, 10; Redwing, 25; Brown-headed Cowbird, 40; Cardinal, 4; Pine Siskin, 2; Am. Goldfinch, 71; Slate-colored Junco, 50; Tree Sparrow, 97; Song Sparrow, 1. **Total,** 31 species; 630 individuals.—James J. F. Deetz, Donald W. Lamm, Leonard M. Llewellyn, Seth H. Low, Fred M. Packard, C. S. Robbins.

125. Hampstead (Carroll Co.), Md. (7½-mile radius centered about 1 mile northwest of Hampstead, and including northern Carroll County and northwestern Baltimore County; agricultural lands 60%, deciduous forest 25%, brush 10%, coniferous stands 5%).—Jan. 2; 7:45 a.m. to 5:15 p.m. Cloudy with occasional light drizzle; temp. 45° to 55°; calm; ground bare; all water open, but Pretty Boy Reservoir very low. Three observers in 2 parties. Total party-hours, 12 (9 on foot, 3 by car); total miles, 54 (42 by car, 12 on foot). Turkey Vulture, 24; Red-tailed Hawk, 3; Marsh Hawk, 4; Sparrow Hawk, 5; Killdeer, 4; Downy Woodpecker, 10; Horned Lark, 43; Blue Jay, 4; Am. Crow, 10,000+; Fish Crow, 3; Chickadee, 5 (including at least 1 Black-capped and 2 Carolina); Tufted Titmouse, 14; White-breasted Nuthatch, 6; Brown Creeper, 8; Winter Wren, 6; Carolina Wren, 3; Eastern Bluebird, 4; Golden-crowned Kinglet, 3; Loggerhead Shrike, 1; Starling, 900+; English Sparrow, 200+; Cardinal, 16; Am. Goldfinch, 85; Slate-colored Junco, 73; Tree Sparrow, 102; Field Sparrow, 44; White-throated Sparrow, 23; Swamp Sparrow, 2; Song Sparrow, 57. **Total,** 30 species; about 11,652 individuals.—M. Brooke Meanley, Robert E. Stewart, Ford Wilke.

126. Kent Island, Md. (same 7½-mile radius as in 1948, but Clairbourne ferry and area from Tunis Mills to Wittman not covered in 1949; mixed woods 5%, deciduous woods 5%, pine woods 5%, roadsides 20%, water and water's edge 65%).—Dec. 29; 7:30 a.m. to 5 p.m. Sunny; temp. 28° to 53°; wind light, rising to 15 m.p.h. and falling again about 3 p.m. Five observers working in 2 parties from 1 car. Total hours, 13 (9 on foot, 4 by car); total miles, 75 (5 on foot, 70 by car). Common Loon, 1; Horned Grebe, 98; Pied-billed Grebe, 27; Great Blue Heron, 1; Whistling Swan, 1780; Canada Goose, 3783; Mallard, 2; Black Duck, 1345; Gadwall, 8; Baldpate, 3165; Pintail, 3; Redhead, 7050 (7000 est., 50); Ring-necked Duck, 10; Canvasback, 3040 (3000 est., 40); Am. Golden-eye, 1066 (1000 est., 66); Buffle-head, 79; Old-squaw, 135; White-winged Scoter, 44; Red-breasted Merganser, 13; Turkey Vulture, 60; Cooper's Hawk, 1; Red-tailed Hawk, 7; Red-shouldered Hawk, 1; Bald Eagle, 4; Sparrow Hawk, 9; Bob-white, 1; Killdeer, 15; Great Black-backed Gull, 3; Herring Gull, 1231; Ring-billed Gull, 82; Laughing Gull, 1; Mourning Dove, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 2; Red-bellied Woodpecker, 1; Downy Woodpecker, 7; Horned Lark, 16; Am. Crow, 370; Fish Crow, 8; Carolina Chickadee, 6; Tufted Titmouse, 2; Brown Creeper, 1; Winter Wren, 1; Carolina Wren, 6; Mockingbird, 12; Robin 1; Eastern Bluebird, 24; Golden-crowned Kinglet, 6; Starling, 24; Myrtle Warbler, 62; English Sparrow, 53; Eastern Meadowlark, 101; Redwing, 676; Brown-headed Cowbird, 100; Cardinal, 12; Purple Finch, 9; Am. Goldfinch, 57; Slate-colored Junco, 40; Field Sparrow, 20; White-throated Sparrow, 13; Swamp Sparrow, 1; Song Sparrow, 51. **Total,** 61 species; about 24,748 individuals.—Mary C. Crone, Robert H. Gibbs, Jr., Ovid E. Roberts, Jr., Roxie C. Simpson, Thomas L. Zapf.

127. Loch Raven (Baltimore Co.), Md. (from Towson around the lake, through Dulaney Valley to Loch Raven Station and back to Towson through Limekiln Bottom; early seral stages 80%, deciduous woodland 10%, cultivated land 5%, coniferous plantations about 30 years old 5%).—Dec. 29; 6:30 a.m. to 4:45 p.m. Clear; temp. 28° to 53°; wind W to N, 12 m.p.h. at midday, lacking in early and late hours; ground bare; no ice on lake. Two observers together. Total hours, 10 (9 on foot, 1 in car); total miles, 30 (10 on foot, 20 in car). Horned Grebe, 5; Black Duck, 45; Am. Merganser, 6; Turkey Vulture, 13; Red-tailed Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 1; Belted Kingfisher, 2; Downy Woodpecker, 3; Am. Crow, 62; Carolina Chickadee, 3; White-breasted Nuthatch, 2; Carolina Wren, 2; Mockingbird, 1; Robin, 1; Eastern Bluebird, 13; Cedar Waxwing, 35; Myrtle Warbler, 2; Cardinal, 5; Am. Goldfinch, 55; Slate-colored Junco, 27; Tree Sparrow, 37; Field Sparrow, 4; White-throated Sparrow, 16; Swamp Sparrow, 1; Song Sparrow, 3. **Total,** 26 species; 346 individuals. —Charles H. Kolb, Haven Kolb.

128. McCoole (Allegany Co.), Md. (center of town to 1 mile east; center of town north along U.S. 220 to Rawlings; top of Dans Mountain 3 miles east of Lonaconing; town suburb 15%, open farmland 25%, deciduous woods 25%, coniferous plantings 10%, pasture 25%).—Dec. 27; 8:30 a.m. to 7 p.m. Very foggy in a.m., clearing in p.m.; temp. 45° to 60°; calm. Total hours, 10 (9 on foot, 1 by car); total miles, 20 (8 on foot, 12 by car). Red-tailed Hawk, 1; Sparrow Hawk, 2; Ruffed Grouse, 2; Bob-white, 12; Screech Owl, 1; Yellow-shafted Flicker, 1; Pileated Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 7; Horned Lark, 3; Am. Crow, 8; Black-capped Chickadee, 17; Tufted

Titmouse, 8; Red-breasted Nuthatch, 2; Winter Wren, 1; Carolina Wren, 6; Mockingbird, 2; Robin, 1; Hermit Thrush, 4; Eastern Bluebird, 3; Loggerhead Shrike, 2; Starling, 62; English Sparrow, 60; Brown-headed Cowbird, 7; Cardinal, 19; Am. Goldfinch, 12; Slate-colored Junco, 25; Tree Sparrow, 26; Field Sparrow, 4; White-crowned Sparrow, 25 (26 were banded from Dec. 24 to 31); White-throated Sparrow, 8; Song Sparrow, 16. **Total,** 32 species; 350 individuals.—Byron Kiser, Anna and Leonard M. Llewellyn.

129. Ocean City, Md. (7½-mile radius from Berlin, including Ocean City inlet, northern 7½ miles of Assateague Island, South Point, Newark, Pocomoke River from Powellsville to Whaleysville, and the St. Martin River; tidal bays and estuaries 25%, upland loblolly pine and deciduous woods 20%, fields 16%, salt marshes 15%, Pocomoke swamp 13%, ocean beach 9%, ocean 2%).—Dec. 28; 6:45 a.m. to 5:30 p.m. Clear; temp. 42° to 50°; wind NW, 5-15 m.p.h.; ground bare; all water open. Eighteen observers in 9 parties. Total hours, 80 (58 on foot, 10 by car, 7 by canoe, 5 by motorboat); total miles, 235 (52 on foot, 134 by car, 5 by canoe, 44 by motorboat). Common Loon, 26; Red-throated Loon, 48; Holboell's Grebe, 1; Horned Grebe, 136; Pied-billed Grebe, 6; Gannet, 6; Great Blue Heron, 26; Am. Bittern, 2; Canada Goose, 3090; Brant, 3425; Blue Goose, 2; Mallard, 53; Black Duck, 815; Pintail, 26; Green-winged Teal, 63; Shoveller, 9; Wood Duck, 12; Ring-necked Duck, 4; Canvas-back, 82; Greater Scaup Duck, 203; Am. Golden-eye, 162; Buffle-head, 138; Old-squaw, 438; Harlequin Duck, 1 (imm. ♂ in flock of Old-squaws just off Ocean City jetty, studied at rest and in flight at less than 100 yds. through 35X telescope—E.G.D., J.E.W.); White-winged Scoter, 415; Surf Scoter, 895; Am. Scoter, 196; Ruddy Duck, 15; Hooded Merganser, 6; Am. Merganser, 2; Red-breasted Merganser, 462; Turkey Vulture, 438; Black Vulture, 4; Sharp-shinned Hawk, 4; Cooper's Hawk, 7; Red-tailed Hawk, 12; Red-shouldered Hawk, 6; Rough-legged Hawk, 1; Bald Eagle, 2; Marsh Hawk, 21; Sparrow Hawk, 21; Bob-white, 11; Am. Coot, 8; Killdeer, 189; Black-bellied Plover, 21; Woodcock, 3; Wilson's Snipe, 8; Greater Yellow-legs, 1; Purple Sandpiper, 6; Least Sandpiper, 6; Red-backed Sandpiper, 538; Semipalmated Sandpiper, 32 (J.W.A.); Sanderling, 224; Great Black-backed Gull, 18; Herring Gull, 1028; Ring-billed Gull, 181; Laughing Gull, 1; Bonaparte's Gull, 5; Mourning Dove, 265; Screech Owl, 1; Horned Owl, 1; Barred Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 5; Yellow-shafted Flicker, 45; Pileated Woodpecker, 5; Red-bellied Woodpecker, 12; Hairy Woodpecker, 12; Downy Woodpecker, 35; Eastern Phoebe, 9; Horned Lark, 64 (including 12 Northern and 12 Prairie); Am. Crow, 299; Carolina Chickadee, 78; Tufted Titmouse, 29; White-breasted Nuthatch, 8; Brown-headed Nuthatch, 4; Brown Creeper, 10; Winter Wren, 13; Carolina Wren, 40; Short-billed Marsh Wren, 3; Mockingbird, 10; Catbird, 2; Robin, 571; Hermit Thrush, 5; Eastern Bluebird, 82; Golden-crowned Kinglet, 24; Ruby-crowned Kinglet, 3; Am. Pipit, 226; Cedar Waxwing, 22; Loggerhead Shrike, 2; Starling, 900; Myrtle Warbler, 472; Pine Warbler, 1; Palm Warbler, 6 (4 Western, 2 Yellow); English Sparrow, 118; Eastern Meadowlark, 401; Red-wing, 189; Rusty Blackbird, 39; Purple Grackle, 122; Brown-headed Cowbird, 318; Cardinal, 111; Purple Finch, 15; Am. Goldfinch, 354; Eastern Towhee, 26; Ipswich Sparrow, 2; Savannah Sparrow, 97; Sharp-tailed Sparrow, 10; Vesper Sparrow, 10; Slate-colored Junco, 259; Tree Sparrow, 47; Chipping Sparrow, 10; Field Sparrow, 128; White-throated Sparrow, 1235; Fox Sparrow, 7; Swamp Sparrow, 216; Song Sparrow, 249. **Total,** 116 species (2 additional subspecies); 20,792 individuals. (Snowy Owl seen 3½ miles north of area. One Snow Goose seen Dec. 27.)—John W. Aldrich, Elting Arnold, Gorman Bond, John H. Buckalew, Edwin G. Davis, Malcolm Davis, Allen J. Duvall, Ira N. Gabrielson, Donald W. Lamm, Seth H. Low, Duncan McDonald, M. Brooke Meanley, E. O. Mellinger, Chandler S. Robbins, Paul F. Springer, Robert E. Stewart, John W. Taylor, John E. Willoughby.

130. Southern Dorchester County, Md. (Blackwater National Wildlife Refuge to Elliott Island; same area and habitats as in past 2 years).—Dec. 27; 6:15 a.m. to 5:20 p.m. Continuous light rain, visibility very poor all day due to fog; temp. 54° to 58°; wind SW, 10-15 m.p.h.; ground bare; all water still open. Ten observers in 5 parties. Total hours, 48 (32 on foot, 7 in car, 6 in motorboat, 3 in canoe); total miles, 186 (28 on foot, 130 by car, 23 by motorboat, 5 by canoe). Horned Grebe, 2; Pied-billed Grebe, 2; Great Blue Heron, 19; Black-crowned Night Heron, 2; Am. Bittern, 2; Canada Goose, 2406; Mallard, 496; Black Duck, 2398; Gadwall, 75; European Widgeon, 1 ♂; Baldpate, 88; Pintail, 73; Green-winged Teal, 219; Blue-winged Teal, 5; Shoveller, 13; Wood Duck, 5; Ring-necked Duck, 766; Canvas-back, 20; Scaup Duck (sp.), 760; Am. Golden-eye, 1; Buffle-head, 2; Ruddy Duck, 4; Hooded Merganser, 70; Am. Merganser, 355; Red-breasted Merganser, 2; Turkey Vulture, 34; Sharp-shinned Hawk, 1; Cooper's Hawk, 4; Red-tailed Hawk, 6; Red-shouldered Hawk, 4; Rough-legged Hawk, 1; Bald Eagle, 13; Marsh Hawk, 39; Sparrow Hawk, 1; Bob-white, 7; King Rail, 20; Clapper Rail, 4; Virginia Rail, 3; Sora, 3 (R.E.S., S.H.L.); Killdeer, 12; Woodcock, 1; Wilson's Snipe, 6; Greater Yellow-legs, 24; Lesser Yellow-legs, 4; Red-backed Sandpiper, 40; Herring Gull, 203; Ring-billed Gull, 91; Mourning Dove, 35; Barn Owl, 2; Barred Owl, 3; Short-eared Owl, 4; Saw-whet Owl, 1 (caught by hand—S.H.L.); Belted Kingfisher, 4; Yellow-shafted Flicker, 5; Pileated Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 16; Horned Lark, 5; Blue Jay, 2; Am. Crow, 372; Fish Crow, 11; Carolina Chickadee, 73; Tufted Titmouse, 6; Brown-headed Nuthatch, 68; Brown Creeper, 6; Winter Wren, 2; Carolina Wren, 15; Long-billed Marsh Wren, 34; Short-billed Marsh Wren, 30; Mockingbird, 2; Robin, 2;

Eastern Bluebird, 48; Golden-crowned Kinglet, 26; Ruby-crowned Kinglet, 16; Am. Pipit, 23; Loggerhead Shrike, 1; Starling, 365; Myrtle Warbler, 1382; English Sparrow, 83; Eastern Meadowlark, 149; Red-wing, 12,300 (partly est.); Purple Grackle (including both Bronzed and Purple), 2200 (est.); Brown-headed Cowbird, 22; Cardinal, 30; Am. Goldfinch, 50; Eastern Towhee, 4; Savannah Sparrow, 32; Seaside Sparrow, 7; Slate-colored Junco, 62; Tree Sparrow, 13; Field Sparrow, 18; White-throated Sparrow, 105; Fox Sparrow, 6; Swamp Sparrow, 202; Song Sparrow, 144. **Total,** 95 species (1 additional subspecies); about 26,297 individuals. Low count of diving ducks due to continuous heavy fog.—Elting Arnold, Edwin G. Davis, Donald W. Lamm, Seth H. Low, Duncan McDonald, Chandler S. Robbins, Robert E. Stewart, John W. Taylor, W. Steele Webster, John E. Willoughby.

131. Susquehanna Flats-Sassafras River, Md. (same area as in last 2 years).—Jan. 2; 7 a.m. to 5:30 p.m. Cloudy; temp. 40° to 55°; wind NW, 4-10 m.p.h.; ground bare; water open. Nine observers in 2 parties. Total hours, 25 (15 in cars, 10 on foot); total miles, 186 (173 by car, 13 on foot). Horned Grebe, 8; Pied-billed Grebe, 26; Great Blue Heron, 1; Whistling Swan, 4180; Canada Goose, 7530; Mallard, 1240; Black Duck, 5930; Gadwall, 36; Baldpate, 4830; Pintail, 460; Green-winged Teal, 60; Redhead, 12; Ring-necked Duck, 730; Canvas-back, 4070; Scaup Duck (sp.), 34; Am. Golden-eye, 151; Ruddy Duck, 525; Am. Merganser, 26; Red-breasted Merganser, 20; Turkey Vulture, 206; Black Vulture, 1; Red-tailed Hawk, 11; Red-shouldered Hawk, 2; Bald Eagle, 6; Marsh Hawk, 5; Sparrow Hawk, 17; Ring-necked Pheasant, 1; Herring Gull, 156; Ring-billed Gull, 185; Mourning Dove, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 7; Red-bellied Woodpecker, 9; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 2; Downy Woodpecker, 12; Horned Lark, 5; Blue Jay, 4; Am. Crow, 64; Fish Crow, 5; Carolina Chickadee, 10; Tufted Titmouse, 6; Winter Wren, 4; Carolina Wren, 5; Mockingbird, 4; Eastern Bluebird, 15; Golden-crowned Kinglet, 1; Starling, 1020 (est.); Myrtle Warbler, 12; English Sparrow, 105 (est.); Eastern Meadowlark, 6; Red-wing, 630,000 (est.); Purple Grackle, 70,000 (est.); Brown-headed Cowbird, 50; Cardinal 14; Am. Goldfinch, 135; Savannah Sparrow, 2; Slate-colored Junco, 75; Tree Sparrow, 27; Field Sparrow, 10; White-throated Sparrow, 85; Swamp Sparrow, 1; Song Sparrow, 24. **Total,** 63 species; about 732,182 individuals.—Ernest Baldwin, Irston R. Barnes, Robert J. Beaton, Shirley Briggs, John H. Buckalew, Edwin G. Davis, Laurence Kilham, John W. Taylor, John E. Willoughby.

132. Triadelphia Reservoir (Montgomery Co.), Md. (last year's area expanded to include site of proposed reservoir near Scaggsville; 7½-mile radius centered 3 miles east-southeast of Brighton Dam, and including Unity, Mt. Zion, Olney, Ashton, Burtonville, Atholton, Elioak, and Glenelg; reservoir 25%, deciduous woods 35%, fields 35%, residential area 5%).—Dec. 24; 6:45 a.m. to 5:30 p.m. Clear; temp. 25° to 45°; wind NW, 10 m.p.h.; ground bare; all water still open. Eight observers in 3 parties. Total hours, 20 (16 on foot, 4 by car); total miles, 83 (10 on foot, 73 by car). Pied-billed Grebe, 2; Canada Goose, 159; Mallard, 300; Black Duck, 200; Ring-necked Duck, 6; Oldsquaw, 2; Ruddy Duck, 5; Hooded Merganser, 20; Am. Merganser, 60; Turkey Vulture, 81; Cooper's Hawk, 1; Red-tailed Hawk, 10; Red-shouldered Hawk, 3; Bald Eagle, 1; Marsh Hawk, 8; Sparrow Hawk, 18; Bob-white, 35; Am. Coot, 1; Killdeer, 6; Wilson's Snipe, 1; Herring Gull, 2; Mourning Dove, 42; Barred Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 6; Red-bellied Woodpecker, 9; Hairy Woodpecker, 1; Downy Woodpecker, 14; Blue Jay, 3; Am. Crow, 591; Carolina Chickadee, 54; Tufted Titmouse, 16; White-breasted Nuthatch, 2; Brown Creeper, 4; Winter Wren, 3; Carolina Wren, 16; Mockingbird, 13; Hermit Thrush, 1; Eastern Bluebird, 86; Golden-crowned Kinglet, 6; Am. Pipit, 5; Loggerhead Shrike, 3; Starling, 3063; Myrtle Warbler, 1; Palm Warbler (Yellow), 1 (S.H.L.); English Sparrow, 186; Eastern Meadowlark, 122; Red-wing, 30; Brown-headed Cowbird, 500; Cardinal, 31; Am. Goldfinch, 435; Slate-colored Junco, 308; Tree Sparrow, 68; Field Sparrow, 55; White-throated Sparrow, 51; Swamp Sparrow, 2; Song Sparrow, 62. **Total,** 57 species; 6713 individuals. (Also seen during count period: Black Vulture, 2; Cedar Waxwing, 4; White-crowned Sparrow, 2.)—Mary C. Crone, Seth H. Low, Chandler S. Robbins, Prof. and Mrs. Samuel D. Robbins, Mr. and Mrs. Paul F. Springer, Thomas L. Zapf.

133. Wicomico (Charles Co.), Md. (7½-mile radius centered 1 mile northeast of Tompkinsville, and including all of the Wicomico River, Chaptico, Cobb Island, and Cobb Neck north to Pope's Creek on Potomac River; tidal rivers and creeks 50%, fields 25%, coniferous and deciduous woods 25%).—Jan. 1; 6:10 a.m. to 5:10 p.m. Clear in a.m., cloudy in p.m.; temp. 32° to 42°; ground bare. Three observers together. Total hours, 11 (9 on foot, 2 by car); total miles, 40 (6 on foot, 34 by car). Horned Grebe, 13; Pied-billed Grebe, 21; Great Blue Heron, 3; Whistling Swan, 351; Canada Goose, 18; Mallard, 6; Black Duck, 96; Gadwall, 1889; Baldpate, 691; Pintail, 396; Redhead, 8; Canvas-back, 1664; Scaup Duck, 1022 (mostly Greaters); Am. Golden-eye, 136; Buffle-head, 3; Ruddy Duck, 1166; Am. Merganser, 2; Red-breasted Merganser, 20; Turkey Vulture, 27; Black Vulture, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 7; Bald Eagle, 3; Marsh Hawk, 8; Sparrow Hawk, 1; Bob-white, 5; Killdeer, 12; Herring Gull, 167; Ring-billed Gull, 36; Belted Kingfisher, 5; Yellow-shafted Flicker, 5; Pileated Woopecker, 1; Red-bellied Woodpecker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 7; Blue Jay, 6; Am. Crow, 158; Carolina Chickadee, 17; Tufted Titmouse, 7; Winter Wren, 3; Carolina Wren, 6; Mockingbird, 8; Robin, 14; Hermit Thrush, 2; Eastern Bluebird, 27; Golden-crowned

Kinglet, 12; Ruby-crowned Kinglet, 6; Am. Pipit, 78; Cedar Waxwing, 30; Loggerhead Shrike, 2; Starling, 205; Myrtle Warbler, 5; English Sparrow, 4; Eastern Meadowlark, 13; Red-wing, 123; Purple Grackle, 1; Cardinal, 19; Purple Finch, 6; Am. Goldfinch, 47; Eastern Towhee, 1; Slate-colored Junco, 74; Field Sparrow, 99; White-throated Sparrow, 38; Fox Sparrow, 1; Swamp Sparrow, 1; Song Sparrow, 61. **Total,** 66 species; 9159 individuals.—John W. Taylor, Jr., Carl Dianda, Robert Bezek.

134. Washington, D. C. (same area as in past 4 years: water 20%, marsh 5%, brushy swamp 5%, bottomland woods 25%, upland deciduous woods 25%, pine woods 5%, fields 5%, suburban 10%, plus 14 feeding-station reports).—Dec. 31; 6:15 a.m. to 5:15 p.m. Clear; temp. 27° to 44°; wind shifting, 6-8 m.p.h.; ground bare; water open. Fifty-nine observers (45 in 7 parties, 14 at feeding stations). Total hours, 114 (18 in cars, 96 on foot); total miles, 324 (198 by car, 126 on foot). Pied-billed Grebe, 1; Great Blue Heron, 15; Black-crowned Night Heron, 2; Mallard, 18; Black Duck, 29; (Mallard-Black hybrid 1—J.W.A.); Pintail, 600; European Teal, 1 (I.R.B.—seen in area since Dec. 3); Green-winged Teal, 160; Ruddy Duck, 49; Am. Merganser, 77; Turkey Vulture, 256; Black Vulture, 18; Cooper's Hawk, 6; Red-tailed Hawk, 11; Red-shouldered Hawk, 10; Rough-legged Hawk, 1; Bald Eagle, 20; Marsh Hawk, 4; Sparrow Hawk, 20; Bob-White, 46; Am. Coot, 3; Killdeer, 231; Wilson's Snipe, 35; Herring Gull, 647; Ring-billed Gull, 781; Mourning Dove, 43; Horned Owl, 2; Snowy Owl, 1; Barred Owl, 5; Belted Kingfisher, 6; Yellow-shafted Flicker, 23; Pileated Woodpecker, 3; Red-bellied Woodpecker, 30; Yellow-bellied Sapsucker, 6; Hairy Woodpecker, 18; Downy Woodpecker, 119; Horned Lark, 5; Blue Jay, 112; Common Raven, 1 (Mrs. W.W.—harrassed by crows; larger size, bill, and long throat feathers noted; bird called; observer, who is familiar with it, observed it from 100 ft. with 7X50 binoculars); Am. Crow, 853; Fish Crow, 62; Carolina Chickadee, 360; Tufted Titmouse, 288; White-breasted Nuthatch, 139; Red-breasted Nuthatch, 2; Brown Creeper, 26; Winter Wren, 15; Carolina Wren, 100; Long-billed Marsh Wren, 1; Mockingbird, 76; Catbird, 1; Robin, 1; Hermit Thrush, 5; Eastern Bluebird, 96; Golden-crowned Kinglet, 30; Ruby-crowned Kinglet, 12; Cedar Waxwing, 45; Starling, 14,211; Myrtle Warbler, 57; English Sparrow, 842; Eastern Meadowlark, 35; Red-wing, 299; Rusty Blackbird, 15; Brown-headed Cowbird, 30; Cardinal, 333; Purple Finch, 73; Am. Goldfinch, 333; Eastern Towhee, 3; Slate-colored Junco, 910; Tree Sparrow, 123; Chipping Sparrow, 1 (R.T.P.); Field Sparrow, 129; White-throated Sparrow, 559; Fox Sparrow, 13; Swamp Sparrow, 15; Song Sparrow, 220.—**Total,** 76 species; 23,729 individuals.—John W. Aldrich, W. B. Armstrong, Elting Arnold, Sarah Baker, Ernest Baldwin, Irston R. Barnes, Robert Bartl, Robert J. Beaton, Joe Biggs, Elizabeth Brownell, Nettie M. Burgess, Clifford Carson, Mr. and Mrs. James Cooley, Catherine Crone, Edwin G. Davis, Paul Davis, Carl Dianda, Thomas Donnelly, Dorothy Dreese, Philip A. DuMont, C. S. Duvall, Jr., Arthur Fast, Fred Griffin, Fred Halley, Gail Halley, Viola Hogan, Mrs. H. B. Humphrey, Mrs. W. L. G. Joerg, Sylvia Johnson, Katherine Keeley, Lawrence Kilham, Marjorie Lincoln, Charles N. Mason, Gerald Mersereau, L. McCormick-Goodhart, Irene Niles, Katherine Niles, Mrs. Nixon, Roger Tory Peterson, Mr. and Mrs. R. H. Rule, Napier Shelton, Hilda Smith, Harold Stabler, Allen Stickley, John Taylor, Jr., Willoughby Todd, Joanna Tousey, Richard Tousey, Ruth Tousey, Karl Trever, Martha Trever, Nancy Wareham, Lorina Wendt, Frances Willoughby, Mrs. Walter Wyatt, Thomas L. Zapf.

135. Abingdon, Va. (south end of town to point 9 miles north; farmland and pastures 45%, deciduous woodlands 25%, scrub pine and deciduous woodlands 20%, hemlock groves 5%, marsh 5%).—Dec. 28; 7 to 9:15 a.m., 10:30 a.m. to 5 p.m. Clear; temp. 21° to 49° to 37°; wind E. 6-8 m.p.h.; ground damp but no snow. Total hours, 8¾; total miles, 19 (6 by foot, 13 by car). Turkey Vulture, 10; Black Vulture, 26 (21 of which were circling in 1 group); Cooper's Hawk, 1; Red-tailed Hawk, 1; Am. Coot, 1; Wilson's Snipe, 1; Mourning Dove, 82; Belted Kingfisher, 1; Pileated Woodpecker, 2; Red-bellied Woodpecker, 1; Downy Woodpecker, 5; Eastern Phoebe, 1; Blue Jay, 5; Am. Crow, 21; Carolina Chickadee, 46; Tufted Titmouse, 5; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 8; Brown Creeper, 2; Carolina Wren, 9; Mockingbird, 12; Eastern Bluebird, 30; Golden-crowned Kinglet, 11; Cedar Waxwing, 1; Starling, 240; English Sparrow, 65; Eastern Meadowlark, 32; Red-wing, 34; Cardinal, 48; Am. Goldfinch, 36; Eastern Towhee, 3; Slate-colored Junco, 83; Field Sparrow, 24; White-crowned Sparrow, 16; White-throated Sparrow, 16; Swamp Sparrow, 3; Song Sparrow, 61. **Total,** 37 species; 945 individuals.—S. M. Russell.

136. Back Bay National Wildlife Refuge, Va. (refuge area including Long Island, ocean beach from Sandbridge to North Carolina line, Knott's Island [the Va. part], Sigma, Pungo, Pleasant Ridge, North Landing River ferry; open farmland 5%, pine woodland 10%, deciduous woodland 16%, ocean beach 17%, marshes and inland bay 52%).—Dec. 31; 7 a.m. to 6 p.m. Partly cloudy; temp. 28° to 46°; wind SW, 5-12 m.p.h.; ground bare; water open. Nine observers in 1 to 4 parties. Total hours, 27 (2 in car, 5 in truck on beach and in marsh, 3 in motorboat, 17 on foot); total miles, 90 (55 by car, 20 by truck, 6 by boat, 9 on foot). Common Loon, 1; Horned Grebe, 1; Pied-billed Grebe, 3; Gannet, 7; Double-crested Cormorant, 2; Great Blue Heron, 10; Little Blue Heron, 1 (imm.); Black-crowned Night Heron, 53; Whistling Swan, 2063 (2000 est., 63); Canada Goose, 2722 (2000 est., 722); Snow Goose, 1000 (est.); Blue Goose, 8; Mallard, 1; Black Duck, 446 (300 est., 146); Gadwall, 2; Baldpate, 4300 (est.); Pintail, 3000 (est.); Green-winged Teal, 58; Redhead, 4000 (est.); Can-

vas-back, 4000 (est.); Scaup Duck (sp.), 1500 (est.); Am. Golden-eye, 14; Buffle-head, 22; Old-squaw, 3; White-winged Scoter, 22; Surf Scoter, 25; Am. Scoter, 95; Ruddy Duck, 81; Hooded Merganser, 5; Am. Merganser, 1; Red-breasted Merganser, 1; Turkey Vulture, 9; Black Vulture, 25; Cooper's Hawk, 2; Red-tailed Hawk, 2; Bald Eagle, 8; Marsh Hawk, 15; Peregrine Falcon, 2; Sparrow Hawk, 9; King Rail, 3; Am. Coot, 4000 (est.); Killdeer, 1; Sanderling, 3; Great Black-backed Gull, 9; Herring Gull, 68; Ring-billed Gull, 395 (200 est., 195); Laughing Gull, 10; Mourning Dove, 5; Barred Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 22; Pileated Woodpecker, 2; Red-bellied Woodpecker, 3; Downy Woodpecker, 8; Eastern Phoebe, 3; Blue Jay, 4; Am. Crow, 61; Fish Crow, 168; Carolina Chickadee, 24; Tufted Titmouse, 7; White-breasted Nuthatch, 2; Brown-headed Nuthatch, 11; House Wren, 3 (C.E.S.); Winter Wren, 2; Carolina Wren, 46; Long-billed Marsh Wren, 4; Short-billed Marsh Wren, 10; Mockingbird, 17; Catbird, 16; Brown Thrasher, 1; Robin, 85; Hermit Thrush, 12; Eastern Bluebird, 24; Golden-crowned Kinglet, 25; Ruby-crowned Kinglet, 15; Am. Pipit, 135; Starling, 59; Cape May Warbler, 1 (with Palm Warblers—K.L., F.R.S., C.E.S.); Myrtle Warbler, 627; Pine Warbler, 2; Palm Warbler (Western), 3; Yellow-throat, 11; English Sparrow, 44; Eastern Meadowlark, 46; Red-wing, 207; Boat-tailed Grackle, 24; Cardinal, 39; Purple Finch, 2; Am. Goldfinch, 93; Eastern Towhee, 31; Savannah Sparrow, 60; Sharp-tailed Sparrow, 3; Slate-colored Junco, 32; Field Sparrow, 35; White-throated Sparrow, 146; Fox Sparrow, 3; Swamp Sparrow, 182; Song Sparrow, 164. **Total,** 98 species; about 30,540 individuals.—P. Fuller, J. H. Grey, K. Lawless, Mike Michell, Mr. and Mrs. Jack Perkins, Mrs. A. C. Reed, F. R. Scott, C. E. Stevens.

137. Blacksburg (Montgomery Co.), Va. (V.P.I. campus and farm, Strouble's Creek to New River, Brush Mt. and Tom's Creek to New River, along New River from Pepper's Ferry Bridge to Goodwin's Ferry except through Radford Ordnance Works grounds; woods 37%, farmland 37%, river-bottom 26%).—Dec. 28; 6:30 a.m. to 5:30 p.m. Partly cloudy; temp. 32° to 43°; wind N shifting to W, 10-15 m.p.h. on mountain tops, calm in valleys until noon, then intermittent, 4-6 m.p.h.; ground bare. Ten observers in 5 parties. Total hours, 50½ (48 on foot, 2½ in cars used by 3 parties in shifting from place to place and in picking up 2 other parties at end of day); total miles, 128 (58 on foot, 70 by car). Mallard, 99; Black Duck, 168; Gadwall, 14; Baldpate, 30; Pintail, 7; Green-winged Teal, 1; Redhead, 1; Ring-necked Duck, 14; Lesser Scaup Duck, 4; Am. Golden-eye, 41; Buffle-head, 21; Hooded Merganser, 32; Turkey Vulture, 80; Black Vulture, 19; Cooper's Hawk, 3; Red-tailed Hawk, 3; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 15; Ruffed Grouse, 1; Bob-white, 16 (3 coveys); Am. Coot, 1; Killdeer, 12; Wilson's Snipe, 1; Herring Gull, 1; Rock Dove (feral), 59; Mourning Dove, 97; Screech Owl, 1; Horned Owl, 1; Belted Kingfisher, 5; Yellow-shafted Flicker, 5; Pileated Woodpecker, 3; Red-bellied Woodpecker, 4; Red-headed Woodpecker, 5; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 9; Downy Woodpecker, 30; Eastern Phoebe, 5; Horned Lark (Prairie), 175; Blue Jay, 8; Common Raven, 2; Am. Crow, 953 (partly est.); Chickadee (both Black-capped and Carolina present), 127; Tufted Titmouse, 72; White-breasted Nuthatch, 17; Red-breasted Nuthatch, 13; Brown Creeper, 4; Winter Wren, 20; Carolina Wren, 48; Mockingbird, 12; Robin, 1; Hermit Thrush, 3; Eastern Bluebird, 31; Golden-crowned Kinglet, 70; Ruby-crowned Kinglet, 1; Loggerhead Shrike, 6; Starling, 482; Myrtle Warbler, 2; English Sparrow, 96; Eastern Meadowlark, 17; Red-wing, 2; Cardinal, 177; Am. Goldfinch, 51; Purple Finch, 32; Pine Siskin, 1; Eastern Towhee, 2; Savannah Sparrow, 7; Slate-colored Junco, 223; Tree Sparrow, 56; Field Sparrow, 169; White-crowned Sparrow, 91; White-throated Sparrow, 39; Swamp Sparrow, 2; Song Sparrow, 170. **Total,** 74 species; about 3994 individuals.—C. O. Handley, Sr., C. O. Handley, Jr., John M. Handley, Robert J. Watson, J. W. Murray, Mr. and Mrs. Ellison Smyth, G. M. Shear, A. O. English, Sally E. McLain.

138. Brooke, Va. (triangular area with Brooke, Widewater, and mouth of Potomac Creek at the 3 apices; including Aquia Creek southeast of railroad, lower 1½ miles of Potomac Creek, and a maximum diameter of 8 miles along Potomac River; waterfront 30%, marsh 5%, open fields 10%, hedgerows 10%, mixed forest edge 30%, deciduous slash 5%, deciduous forest 10%).—Dec. 31; 7:30 a.m. to 4:45 p.m. Fair; temp. 20° to 42°; ground bare; water open. Five observers working singly or in pairs. Total hours, 26½; total miles, 14 (on foot). Red-throated (?) Loon, 1; Pied-billed Grebe, 2; Great Blue Heron, 3; Whistling Swan, 317; Mallard, 85; Black Duck, 900 (est.); Baldpate, 20; Pintail, 14; Green-winged Teal, 2; Redhead, 6; Ring-necked Duck, 400 (est.); Canvas-back, 3000 (est.); Lesser (?) Scaup Duck, 400 (est.); Am. Golden-eye, 5; Buffle-head, 7; Old-squaw, 2; Ruddy Duck, 1600 (est.); Hooded Merganser, 22; Am. Merganser, 250; Red-breasted Merganser, 15; Turkey Vulture, 5; Black Vulture, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 6; Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 18; Am. Coot, 3; Killdeer, 52; Herring Gull, 65; Ring-billed Gull, 35; Mourning Dove, 50; Belted Kingfisher, 6; Yellow-shafted Flicker, 8; Pileated Woodpecker, 4; Red-bellied Woodpecker, 9; Red-headed Woodpecker, 3; Yellow-bellied Sapsucker, 8; Hairy Woodpecker, 1; Downy Woodpecker, 20; Eastern Phoebe, 1; Blue Jay, 10; Am. Crow, 270; Fish Crow, 2; Carolina Chickadee, 50; Tufted Titmouse, 30; Red-breasted Nuthatch, 5; Brown Creeper, 5; Winter Wren, 4; Carolina Wren, 35; Mockingbird, 19; Robin, 10; Hermit Thrush, 14; Eastern Bluebird, 19; Golden-crowned Kinglet, 22; Ruby-crowned Kinglet, 12; Cedar Waxwing, 21; Starling, 30; Myrtle Warbler,

7; English Sparrow, 15; Eastern Meadowlark, 25; Red-wing, 150; Rusty Blackbird, 120; Cardinal, 50; Purple Finch, 6; Pine Siskin, 2; Am. Goldfinch, 100; Eastern Towhee, 3; Slate-colored Junco, 350; Tree Sparrow, 150; Field Sparrow, 50; White-throated Sparrow, 300; Swamp Sparrow, 2; Song Sparrow, 110. **Total,** 76 species; about 9350 individuals.—A. A. Baker, R. S. Cannon, Jr., Edwin T. McKnight, Thomas B. Nolan W. W. Rubey.

139. Charlottesville, Va. (Albermarle Lake, Henley's Lake, city reservoir, Thraves Pond, Bellair Pond, Whitehall, Farmington, 8 miles along Rivanna and South Fork Rivanna River from Burnt Mills to town; farmland 35%, lakes and ponds 25%, river-bottom 25%, deciduous woods 10%, pine woods 5%).—Dec. 30; 6:45 a.m. to 5:15 p.m. Fair; temp. 23° to 42°; wind negligible. Three observers in 3 parties in a.m., 2 parties in p.m. Total hours, 28; total miles, 77 (54 by car, 23 afoot). Great Blue Heron, 1; Mallard, 58; Black Duck, 1; Lesser Scaup Duck, 1; Hooded Merganser, 3; Am. Merganser, 2; Turkey Vulture, 76; Black Vulture, 1; Cooper's Hawk, 1; Red-tailed Hawk, 5; Sparrow Hawk, 4; Bob-white, 19; Killdeer, 26; Wilson's Snipe, 2; Mourning Dove, 56; Belted Kingfisher, 5; Yellow-shafted Flicker, 4; Pileated Woodpecker, 5; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 6; Downy Woodpecker, 19; Eastern Phoebe, 2; Horned Lark (Prairie), 43; Blue Jay, 8; Am. Crow, 498; Carolina Chickadee, 74; Tufted Titmouse, 30; White-breasted Nuthatch, 12; Red-breasted Nuthatch, 9; Brown Creeper, 1; Winter Wren, 7; Carolina Wren, 29; Mockingbird, 21; Robin, 4; Hermit Thrush, 4; Eastern Bluebird, 85; Golden-crowned Kinglet, 32; Ruby-crowned Kinglet, 6; Am. Pipit, 40; Loggerhead Shrike, 7; Starling, 307; English Sparrow, 14; Eastern Meadowlark, 46; Red-wing, 226; Rusty Blackbird, 45; Brown-headed Cowbird, 110; Cardinal, 189; Purple Finch, 41; Pine Siskin, 1; Am. Goldfinch, 95; Slate-colored Junco, 477; Tree Sparrow, 23; Field Sparrow, 257; White-crowned Sparrow, 10; White-throated Sparrow, 170; Fox Sparrow, 21; Swamp Sparrow, 11; Song Sparrow, 227. **Total,** 60 species; 3486 individuals.—Kenneth Lawless, Fred R. Scott, Charles E. Stevens, Jr.

140. Fairfield (Rockbridge Co.), Va. (Fairfield north and east to South River, along river to mouth of Irish Creek, 8 miles from Fairfield, and return by different roads; same territory as covered for last 3 years, except owners of "Cherry Grove" farm made count on farm themselves; village yards and gardens 10%, open fields 30%, hardwood forests 30%, stream banks 30%).—Dec. 29; 7 a.m. to 5 p.m. Clear; temp. 26° to 42°; no wind; ground frozen in a.m.; light skim of ice on still water. Two parties varying from 2 to 5 at a time. Total miles, 30 (9 on foot, 21 by car, the car used to shift from one locality to others). Turkey Vulture, 11; Black Vulture, 8; (approximately 100 vultures seen roosting in trees late in p.m., across a stream which made identification impossible); Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 30 (est., 3 coveys); Killdeer, 6; Rock Dove (in wild state on "Cherry Grove" farm), 26; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 5; Eastern Phoebe, 1; Blue Jay, 3; Am. Crow, 66; Black-capped Chickadee, 2; Carolina Chickadee, 14; Tufted Titmouse, 11; White-breasted Nuthatch, 6; Red-breasted Nuthatch, 1; Brown Creeper, 1; Winter Wren, 2; Carolina Wren, 4; Mockingbird, 9; Robin, 1; Eastern Bluebird, 4; Ruby-crowned Kinglet, 3; Loggerhead Shrike, 8; Starling, 58; Myrtle Warbler, 3; English Sparrow, 35; Red-wing, 1; Rusty Blackbird, 4; Brown-headed Cowbird, 3; (flock of blackbirds flushed from barnyard estimated at 50 but unable to identify definitely); Cardinal, 29; Purple Finch, 1; Am. Goldfinch, 11; Slate-colored Junco, 34; Tree Sparrow, 19; Field Sparrow, 1; White-throated Sparrow, 2; Song Sparrow, 7. **Total,** 41 species; 418 individuals.—Rev. and Mrs. W. B. Clemmons, Anne, Martha, and Bill Clemmons, Jr., Mary Catherine Horne, Janet Alexander, Josephine Fultz, Draper Fultz.

141. Fort Belvoir, Va. (same area as in former years but with the addition of Mt. Vernon and "Lebanon," including Pohick Bay; water 30%, bottomland woods 30%, upland deciduous woods 10%, pine woods 10%, old fields 10%, farmland 5%, cattail marsh 4%, parade grounds 1%).—Jan. 1; 6:30 a.m. to 5:30 p.m. Partly cloudy; temp. 33° to 49°; no wind; ground bare and unfrozen; all water ice-free, river at low tide at 1:13 p.m. Seven observers in 2 parties. Total hours, 20½; total miles, 95 (70 by car, 25 on foot). Great Blue Heron, 3; Mallard, 1; Black Duck, 421; Am. Merganser, 9; Turkey Vulture, 9; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 10; Red-shouldered Hawk, 6; Bald Eagle, 21; Marsh Hawk, 4; Sparrow Hawk, 7; Bob-white, 30 (2 coveys); Killdeer, 53; Herring Gull, 46; Ring-billed Gull, 71; Mourning Dove, 18; Belted Kingfisher, 1; Yellow-shafted Flicker, 7; Pileated Woodpecker, 6; Red-bellied Woodpecker, 17; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 11; Downy Woodpecker, 26; Horned Lark (Prairie), 4; Blue Jay, 28; Am. Crow, 106; Fish Crow, 3; Carolina Chickadee, 82; Tufted Titmouse, 45; White-breasted Nuthatch, 30; Red-breasted Nuthatch, 7; Brown Creeper, 6; Winter Wren, 4; Carolina Wren, 26; Mockingbird, 21; Robin, 12; Hermit Thrush, 4; Eastern Bluebird, 13; Golden-crowned Kinglet, 42; Ruby-crowned Kinglet, 2; Cedar Waxwing, 8; Loggerhead Shrike, 3; Starling, 205; Myrtle Warbler, 3; English Sparrow, 137; Eastern Meadowlark, 43; Red-wing, 1747 (1600±100, 147); Rusty Blackbird, 42; Brown-headed Cowbird, 17; Cardinal, 68; Purple Finch, 10; Am. Goldfinch, 69; Eastern Towhee, 1; Slate-colored Junco, 359; Tree Sparrow, 28; Field Sparrow, 60; White-throated Sparrow, 146; Fox Sparrow, 1; Swamp Sparrow, 2; Song Sparrow, 38. **Total,** 61 species; about 4202 individuals. (Seen in area Dec. 31, Scaup Duck (sp.), 2; Buffle-head, 4;

Barred Owl, 1; Pine Siskin, 4.)—Jackson M. Abbott, Irston R. Barnes, J. D. Biggs, Enoch Johnson, Katherine Keeley, Lorina Wendt, Thomas L. Zapf.

142. Lexington, Va. (same area as last year, but more closely worked, and with addition of lower slopes of a mountain; city 10%, oak woods 30%, cedar woods 25%, open fields 25%, scrub 10%).—Dec. 28; 7:30 a.m. to 5:30 p.m.; 1 hour out at noon. Clear; temp. 40° at start and finish; wind NW, 5-15 m.p.h.; ground bare, not frozen; water open. Fourteen observers in 3 parties. Total hours, 27 (22 on foot, 5 in cars); total miles, 84 (23 on foot, 61 by car). Turkey Vulture, 50; Black Vulture, 23; Sharp-shinned Hawk, 2; Cooper's Hawk, 3; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 7; Bob-white, 8 (pair and covey); Killdeer, 9; Wilson's Snipe, 4; Barn Owl, 1 (heard from hollow tree after dark—J.J.M.); Screech Owl, 2; Short-eared Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 5; Pileated Woodpecker, 6; Red-bellied Woodpecker, 2; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 12; Eastern Phoebe, 5; Horned Lark, 9; Blue Jay, 13; Common Raven, 2; Am. Crow, 86; Black-capped Chickadee, 1 (J.J.M.); Carolina Chickadee, 73; Tufted Titmouse, 37; White-breasted Nuthatch, 12; Brown Creeper, 2; Winter Wren, 6; Carolina Wren, 26; Mockingbird, 25; Robin, 1; Hermit Thrush, 1; Eastern Bluebird, 24; Golden-crowned Kinglet, 7; Ruby-crowned Kinglet, 1; Loggerhead Shrike, 6; Starling, 356; English Sparrow, 146; Eastern Meadowlark, 2; Cardinal, 108; Purple Finch, 5; Am. Goldfinch, 10; Slate-colored Junco, 310; Tree Sparrow, 86; Field Sparrow, 40; White-throated Sparrow, 96; Song Sparrow, 26. **Total,** 50 species; 1668 individuals.—R. P. Carroll, Alice Carroll, Robert Carroll, Jr., Gordon G. Heiner, Michael Junkin, Jack Lackmann, Joe Magee, Robert Moses, Mrs. J. J. Murray, J. J. Murray, James Murray, Jr., Robert Paxton, Charles Ritchey, F. M. Yellott.

143. Lynchburg, Va. (Timber Lake area, College Lake area, Airport, Graves' Mill and Tomahawk Swamp area, Rivermont Park; fields 28%, open woods 63%, lakes and marshes 9%).—Dec. 29; 7 a.m. to 5 p.m. Clear; temp. 32° to 58°; calm in a.m., wind, W in p.m., 0-10 m.p.h.; ground bare; lakes and streams open. Seven observers, 2 parties in a.m., 1 party in p.m. Total hours, 15; total miles, 39 (15 on foot, 24 in car). Pied-billed Grebe, 1; Lesser Scaup Duck, 5; Turkey Vulture, 25; Black Vulture, 3; Cooper's Hawk, 3; Red-tailed Hawk, 1; Wilson's Snipe, 1; Mourning Dove, 16; Yellow-shafted Flicker, 3; Pileated Woodpecker, 2; Red-bellied Woodpecker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 13; Eastern Phoebe, 1; Horned Lark (Prairie), 18; Blue Jay, 9; Am. Crow, 243 (partly est.); Carolina Chickadee, 40; Tufted Titmouse, 17; White-breasted Nuthatch, 19; Red-breasted Nuthatch, 3; Winter Wren, 1; Carolina Wren, 14; Mockingbird, 7; Hermit Thrush, 2; Eastern Bluebird, 23; Golden-crowned Kinglet, 24; Ruby-crowned Kinglet, 26; Starling, 96; Myrtle Warbler, 3; English Sparrow, 15; Cardinal, 60; Purple Finch, 4; Am. Goldfinch, 10; Slate-colored Junco, 249; Tree Sparrow, 112; Field Sparrow, 49; White-throated Sparrow, 34; Fox Sparrow, 4; Swamp Sparrow, 2; Song Sparrow, 39. **Total,** 41 species; about 1199 individuals.—Jane Freer, Ruskin S. Freer, Bob Giles, Jr., Samuel B. Guss (1 hour in a.m.), Bill Keeton, M. B. Tillotson, Mrs. James W. Wiltshire, Jr.

144. Richmond, Va. (same area as in 5 preceding years, Richmond east to Curles Neck, but with addition of Meadowville and other adjacent areas on south side of James River; open farmland 38%, pine woodlands 10%, deciduous woodlands 17%, residential districts 3%, maple-gum swamp 10%, marshes and river shore 16%, brushy fields 6%).—Dec. 27; 6:30 a.m. to 6 p.m. Fair; temp. 57° to 69°; wind S veering to W, 4-10 m.p.h.; ground bare; water open. Three observers in 2 parties. Total hours, 18 (on foot); total miles, 70 (55 by car, 15 on foot). Common Loon, 1; Pied-billed Grebe, 17; Great Blue Heron, 3; Canada Goose, 4498 (1150 est., 348); Snow Goose, 2; Blue Goose, 3 (2 ad., 1 imm., present in area since Nov. 14—F.R.S.); Mallard, 122; Black Duck, 264 (250 est., 14); Baldpate, 32; Pintail, 22; Shoveller, 1; Wood Duck, 2; Ring-necked Duck, 104; Lesser Scaup Duck, 3; Ruddy Duck, 2; Hooded Merganser, 6; Am. Merganser, 6; Turkey Vulture, 9; Black Vulture, 38; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 8; Sparrow Hawk, 6; Bob-white, 13; Am. Coot, 122; Killdeer, 25; Woodcock, 1; Wilson's Snipe, 35; Herring Gull, 5; Ring-billed Gull, 251; Mourning Dove, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 19; Pileated Woodpecker, 4; Red-bellied Woodpecker, 16; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 22; Eastern Phoebe, 3; Horned Lark (Prairie), 12; Blue Jay, 9; Am. Crow, 117; Carolina Chickadee, 48; Tufted Titmouse, 25; White-breasted Nuthatch, 7; Brown Creeper, 9; Winter Wren, 3; Carolina Wren, 46; Mockingbird, 25; Robin, 5; Hermit Thrush, 3; Eastern Bluebird, 56; Golden-crowned Kinglet, 37; Ruby-crowned Kinglet, 12; Am. Pipit, 62; Cedar Waxwing, 2; Loggerhead Shrike, 5; Starling, 220 (100 est., 120); Myrtle Warbler, 32; English Sparrow, 36; Eastern Meadowlark, 48; Redwing, 314 (300 est., 14); Brown-headed Cowbird, 150 (est.); Cardinal, 75; Purple Finch, 29; Am. Goldfinch, 67; Eastern Towhee, 24; Savannah Sparrow, 3; Slate-colored Junco, 177; Field Sparrow, 86; White-throated Sparrow, 375; Fox Sparrow, 2; Swamp Sparrow, 12; Song Sparrow, 99. **Total,** 74 species, about 7906 individuals.—K. Lawless, F. R. Scott, C. E. Stevens.

145. Shenandoah National Park, Va. (Big Meadows, Fishers Gap, Hawksbill, Limberlost to foot of White Oak Canyon, Skyland, Old Rag Fire Road from Old Rag Post Office to Skyline Drive; altitude 1200 to 4049 ft.; deciduous woods 65%, abandoned fields 20%, hemlock groves 10%, birch scrub 3%, pine woods 2%).—Dec. 28; 7 a.m. to 5

p.m. Fair; temp. 24° to 42°; wind NNW, 5-15 m.p.h. on ridge. Two observers in 2 parties. Total hours, 16; total miles, 48 (30 by car, 18 afoot). Turkey Vulture, 5; Red-tailed Hawk, 2; Marsh Hawk, 1; Ruffed Grouse, 6; Pileated Woodpecker, 3; Hairy Woodpecker, 3; Downy Woodpecker, 8; Common Raven, 3; Am. Crow, 11; Carolina Chickadee, 38; Tufted Titmouse, 15; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 1; Brown Creeper, 6; Winter Wren, 4; Golden-crowned Kinglet, 11; Starling, 17; Cardinal, 12; Purple Finch, 1; Am. Goldfinch, 7; Slate-colored Junco, 99 (both Carolina and typical Slate-colored seen); Tree Sparrow, 11; White-throated Sparrow, 9; Fox Sparrow, 1; Song Sparrow, 2. **Total,** 25 species (1 additional subspecies); 276 individuals.—Fred R. Scott, Charles E. Stevens, Jr.

146. Sweet Briar, Va. (Sweet Briar College property and adjacent areas including St. Angelo Lake, radius of 2 miles; open fields 20%, mature deciduous woodland 30%, brushy creek-bottoms 25%, lake edges 10%, scrubby hillsides 10%, about farm buildings 5%).—Dec. 25; 7:30 to 10:30 a.m., 1 to 5 p.m. Fair in a.m., overcast in p.m.; temp. 18° to 36°; wind 1-3 m.p.h. Two observers together most of day. Total hours, 12; total miles, 6 (on foot). Am. Merganser, 2; Turkey Vulture, 5; Mourning Dove, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 4; Pileated Woodpecker, 1; Red-bellied Woodpecker, 2; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 7; Eastern Phoebe, 1; Blue Jay, 7; Am. Crow, 11; Carolina Chickadee, 12; Tufted Titmouse, 6; White-breasted Nuthatch, 6; Red-breasted Nuthatch, 5; Brown Creeper, 2; Carolina Wren, 8; Mockingbird, 2; Eastern Bluebird, 1; Golden-crowned Kinglet, 6; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 1; Starling, 60 (est.); Myrtle Warbler, 20; English Sparrow, 30; Cardinal, 40; Purple Finch, 4; Am. Goldfinch, 15; Slate-colored Junco, 35; Tree Sparrow, 2; Field Sparrow, 6; White-crowned Sparrow, 20 (singing); White-throated Sparrow, 25; Song Sparrow, 16. **Total,** 36 species; about 370 individuals. (Seen in area Dec. 26, Pied-billed Grebe, 1; Cooper's Hawk, 1; Dec. 30, Wilson's Snipe, 1; Eastern Meadowlark, 1.)—Anne Wheaton, Gertrude Prior, Ernest Edwards.

147. Warren (Albemarle Co.), Va. (James River from Hatton to Goosby Island and area about Warren, Totier Creek, and Keene; river-bottom 40%, open fields 30%, deciduous woods 20%, pine woods 10%).—Dec. 26; 6 a.m. to 4 p.m. Cloudy in a.m., fog and drizzle in p.m.; temp. 46° to 50°. Two observers together. Total hours, 10; total miles, 27 (15 by car, 12 afoot). Turkey Vulture, 8; Red-tailed Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 9; Mourning Dove, 229; Belted Kingfisher, 1; Yellow-shafted Flicker, 3; Pileated Woodpecker, 2; Red-bellied Woodpecker, 5; Hairy Woodpecker, 5; Downy Woodpecker, 12; Eastern Phoebe, 1; Horned Lark (Prairie), 2; Am. Crow, 118; Carolina Chickadee, 31; Tufted Titmouse, 9; White-breasted Nuthatch, 7; Red-breasted Nuthatch, 2; Brown Creeper, 5; Winter Wren, 5; Carolina Wren, 16; Short-billed Marsh Wren, 1 (seen and heard in wet meadow near Hatton; 1st winter record for county—C.E.S.); Mockingbird, 6; Eastern Bluebird, 10; Golden-crowned Kinglet, 15; Ruby-crowned Kinglet, 1; Am. Pipit, 1; Loggerhead Shrike, 4; Starling, 36; English Sparrow, 41; Eastern Meadowlark, 27; Red-wing, 1; Brown-headed Cowbird, 51; Cardinal, 39; Purple Finch, 98; Am. Goldfinch, 52; Slate-colored Junco, 201; Tree Sparrow, 19; Field Sparrow, 107; White-throated Sparrow, 19; Fox Sparrow, 6; Swamp Sparrow, 6; Song Sparrow, 81. **Total,** 44 species; 1296 individuals.—Gordon Lewis, Charles E. Stevens, Jr.

148. Charlotte, N.C. (area essentially the same as in last 7 years, including Clarkson city garden; Johnston and Stillwell ponds along Albemarle road and upper drainage basin of McAlpine Creek; also Freedom Park and Sharon Hills area; pine, gum, poplar, and cedar woodland 45%, open farmland 40%, hedgerows 10%, ponds and marshes 5%).—Dec. 28; 7 a.m. to 5 p.m. Clear; temp. 45° to 58°; wind 1-7 m.p.h. Eleven observers in 5 parties. Total hours, 34; total miles, 79 (55 by car, 24 on foot). Pied-billed Grebe, 1; Canvas-back, 2; Turkey Vulture, 10; Black Vulture, 6; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 2; Wilson's Snipe, 1; Mourning Dove, 20; Screech Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 7; Red-bellied Woodpecker, 1; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 3; Eastern Phoebe, 5; Blue Jay, 3; Am. Crow, 50; Carolina Chickadee, 18; Tufted Titmouse, 19; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 2; Brown-headed Nuthatch, 3; Brown Creeper, 2; Winter Wren, 1; Carolina Wren, 7; Mockingbird, 7; Brown Thrasher, 1; Robin, 3; Hermit Thrush, 3; Eastern Bluebird, 98; Golden-crowned Kinglet, 6; Ruby-crowned Kinglet, 5; Am. Pipit, 40; Cedar Waxwing, 16; Loggerhead Shrike, 10; Starling, 110; Myrtle Warbler, 7; Pine Warbler, 4; English Sparrow, 18; Eastern Meadowlark, 40; Cardinal, 32; Purple Finch, 2; Am. Goldfinch, 18; Eastern Towhee, 13; Savannah Sparrow, 1; Slate-colored Junco, 80; Chipping Sparrow, 1; Field Sparrow, 36; White-throated Sparrow, 39; Fox Sparrow, 1; Song Sparrow, 10. **Total,** 55 species; 774 individuals.—Clara Burt, B. R. Chamberlain, Norman Chamberlain, Mrs. Edwin Clarkson, Kitty Constable, Dick Crutchfield, Will Hon, Brem Mayer, Mrs. Robert Poole, Mrs. George Potter, Mrs. W. B. Simons (Mecklenburg Audubon Club).

149. Durham, N.C. (essentially same area as last year; Duke University West Campus as center; north 3½ miles to Crystal Lake, southwest 3 miles to Hollow Rock and 2 miles up New Hope Creek, east 3 miles to Oxford Highway and Club Boulevard, including Hillandale Golf Course, East and West Duke Campuses and surrounding forest, Bird Sanctuary, and lowlands along Ellerbe Creek; open

land including pasture, cultivated fields, and a small amount of marsh 50%, brush 25%, pine 10%, hardwood 15%).—Dec. 26; 8 a.m. to 5 p.m. Cloudy with intermittent drizzle, becoming steady light rain the last hour; temp. 45° to 65°; no wind. Eight observers in 4 half-day parties of 1 to 6 observers each. Total observer-hours, 50; Total miles, 64 (50 by car, 14 on foot). Hooded Merganser, 1; Sparrow Hawk, 1; Bob-white, 24; Killdeer, 14; Wilson's Snipe, 17; Belted Kingfisher, 3; Yellow-shafted Flicker, 9; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 2; Downy Woodpecker, 12; Eastern Phoebe, 4; Blue Jay, 36; Am. Crow, 26; Carolina Chickadee, 82; Tufted Titmouse, 20; White-breasted Nuthatch, 1; Brown-headed Nuthatch, 1; Brown Creeper, 12; Winter Wren, 1; Carolina Wren, 32; Mockingbird, 21; Hermit Thrush, 4; Eastern Bluebird, 36; Golden-crowned Kinglet, 36; Ruby-crowned Kinglet, 12; Cedar Waxwing, 3; Starling, 207; Myrtle Warbler, 5; Pine Warbler, 7; English Sparrow, 15; Eastern Meadowlark, 65; Cardinal, 48; Purple Finch, 47; Am. Goldfinch, 77; Eastern Towhee, 18; Savannah Sparrow, 3; Slate-colored Junco, 289; Field Sparrow, 33; White-throated Sparrow, 287; Fox Sparrow, 10; Swamp Sparrow, 5; Song Sparrow, 102. **Total,** 44 species; about 1634 individuals.—Joseph R. Bailey, Frank Egerton, Edward C. Horn, Paul J. Kramer, Richard Kramer, C. B. Martin, Jr., Robert Seabrook, Ben Umstead.

150. Greensboro, N.C. (15-mile diameter; approximately same region as in last several years, including Pinecroft, Starmount, Municipal Golf Course, Richardson estate, Greensboro County Park, Lakes Brant, Scales, Jeannette, Philadelphia, Buffalo, Sharpe and White Oak Pond; deciduous and pine woodlands 25%, open fields and golf courses 25%, cattail marsh and thickets 15%, fresh-water lakes 25%, city yards, parkways, and campuses 10%).—Dec. 26; 7:15 a.m. to 5:15 p.m. Fog and intermittent rain, visibility 100 yds. to ½ mile; temp. 41° to 49°; wind 0-15 m.p.h.. Twenty-four observers in 10 parties. Total hours, 72; total miles, 171 (41 on foot, 130 by car). Pied-billed Grebe, 7; Great Blue Heron, 2; Mallard, 1; Black Duck, 9; Ring-necked Duck, 59; Lesser Scaup Duck, 8; Cooper's Hawk, 2; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 4; Bob-white, 24; Killdeer, 13; Wilson's Snipe, 1; Mourning Dove, 166; Belted Kingfisher, 10; Yellow-shafted Flicker, 48; Pileated Woodpecker, 1; Red-bellied Woodpecker, 17; Red-headed Woodpecker, 4; Yellow-bellied Sapsucker, 18; Hairy Woodpecker, 8; Downy Woodpecker, 41; Eastern Phobe, 4; Horned Lark, 185; Blue Jay, 90; Am. Crow, 78; Carolina Chickadee, 261; Tufted Titmouse, 220; White-breasted Nuthatch, 61; Red-breasted Nuthatch, 21; Brown-headed Nuthatch, 28; Brown Creeper, 20; Winter Wren, 13; Carolina Wren, 93; Mockingbird, 72; Catbird, 2; Brown Thrasher, 3; Robin, 6; Hermit Thrush, 9; Eastern Bluebird, 105; Golden-crowned Kinglet, 115; Ruby-crowned Kinglet, 68; Am. Pipit, 18; Cedar Waxwing, 4; Loggerhead Shrike, 7; Starling, 1523; Myrtle Warbler, 36; Pine Warbler, 15; English Sparrow, 169; Eastern Meadowlark, 144; Red-wing, 302; Baltimore Oriole, 1 (regular winter resident) [regular visitor this past winter?—Ed.]; Rusty Blackbird, 68; Cardinal, 354; Purple Finch, 44; Pine Siskin, 49; Am. Goldfinch, 213; Eastern Towhee, 61; Savannah Sparrow, 11; Vesper Sparrow, 3; Slate-colored Junco, 1435; Field Sparrow, 356; White-throated Sparrow, 948; Fox Sparrow, 15; Swamp Sparrow, 8; Song Sparrow, 346. **Total,** 66 species; 8031 individuals.—Oscar Paris, Ann Locke, Etta Schiffman, C. R. Lamb, Wesley Taylor, William Craft, Larry Crawford, Thomas E. Street, J. A. McLeod, Mr. and Mrs. George Perrett, A. D. Shaftesbury, Mr. and Mrs. R. D. Douglas, Inez Coldwell, Ethel McNairy, Mrs. Franklin McNutt, John Carr, Mr. and Mrs. Hugh Medford, Ida and Ailene Mitchell, George A. Smith, Hal H. Strickland.

151. Greenville, N.C. (town area, outlying area to south along Tar River about 12 miles; open and first-year growth fields 50%, open woods 20%, dense river-bottom woods 15%, swamp 15%).—Jan. 1; 5:30 a.m. to 5:45 p.m. Overcast to clear by 8:30 a.m.; temp. 31° to 65°; slight SW wind. Six observers, 1 on foot, 2 by car, 3 in gardens at home. Total hours, 35; Total miles, 40 (15 by foot, 25 by car). Great Blue Heron, 1; Turkey Vulture, 6; Black Vulture, 1; Sharp-shinned Hawk, 2; Red-tailed Hawk, 3; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 6; Killdeer, 2; Mourning Dove, 6; Horned Owl, 1; Barred Owl, 1; Yellow-shafted Flicker, 15; Pileated Woodpecker, 2; Red-bellied Woodpecker, 7; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 7; Eastern Phoebe, 2; Blue Jay, 19; Am. Crow, 264; Fish Crow, 1; Carolina Chickadee, 21; Tufted Titmouse, 15; White-breasted Nuthatch, 2; Brown-headed Nuthatch, 2; Winter Wren, 1; Carolina Wren, 22; Short-billed Marsh Wren, 1; Mockingbird, 9; Brown Thrasher, 4; Robin, 61; Eastern Bluebird, 44; Golden-crowned Kinglet, 10; Am. Pipit, 2; Cedar Waxwing, 8; Loggerhead Shrike, 7; Starling, 101; Myrtle Warbler, 151; English Sparrow, 63; Eastern Meadowlark, 17; Red-wing, 425; Orchard Oriole, 1 (H.C.J.); Oriole (sp.), 5 (observed by Dr. and Mrs. Johnson at their home on feeding tray some 8 ft. away from observer; Russell and Wolff also observed these. Probably were Orchard, but seemed a little large, heavy bill, and black on wings); Cardinal, 17; Purple Finch, 11; Am. Goldfinch, 44; Eastern Towhee, 9; Slate-colored Junco, 227; Field Sparrow, 140; White-throated Sparrow, 131; Swamp Sparrow, 22; Song Sparrow, 39. **Total,** 53 species; about 1966 individuals.—Harold C. Jones, Dr. and Mrs. B. McK. Johnson, Mrs. T. E. Hooker, Johnny Russell, R. L.

152. High Point, N.C. (High Point Municipal Lake and watershed, Armstrong and Richardson farms, Country Club Golf Course, and adjoining residential area; mixed woods 35%, lake and shore-

line 25%, fields 20%, city yards 20%).—Dec. 26; 6 a.m. to 5 p.m. Foggy, intermittent rain; temp. 35° to 52°; calm; ground bare. Eighteen observers in 5 parties. Total hours, 14; total miles, 15 (7 on foot, 8 by car). Great Blue Heron, 1; Scaup Duck (sp.), 14; Turkey Vulture, 3; Cooper's Hawk, 1; Red-tailed Hawk, 1; Bob-white, 3; Killdeer, 13; Mourning Dove, 9; Barred Owl, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 12; Eastern Phoebe, 2; Horned Lark, 5; Blue Jay, 37; Am. Crow, 44; Carolina Chickadee, 35; Tufted Titmouse, 24; White-breasted Nuthatch, 16; Brown Creeper, 2; Winter Wren, 2; Carolina Wren, 24; Mockingbird, 32; Brown Thrasher, 2; Robin, 4; Hermit Thrush, 3; Eastern Bluebird, 33; Golden-crowned Kinglet, 16; Ruby-crowned Kinglet, 15; Loggerhead Shrike, 7; Starling, 211; Myrtle Warbler, 10; Pine Warbler, 4; English Sparrow, 15; Eastern Meadowlark, 14; Purple Grackle, 3; Cardinal, 51; Purple Finch, 13; Am. Goldfinch, 40; Eastern Towhee, 14; Slate-colored Junco, 261; Field Sparrow, 22; White-throated Sparrow, 120; Fox Sparrow, 1; Song Sparrow, 19. **Total,** 49 species; 1190 individuals.—Mrs. Florence Baker, Mr. and Mrs. J. W. Furr, Mrs. Vallette J. Harris, Mr. and Mrs. J. O. Hauschild, Mrs. C. C. Haworth, Margaret Haworth, Mrs. J. F. Hayden, Mrs. C. B. Mattocks, James Mattocks, Genevieve Moore, I. J. Quigley, Mr. and Mrs. R. I. Quigley, Bess Siceloff, Mary Alice Siceloff, Mrs. J. C. Siceloff (Catesby Bird Club).

153. Lenoir, N.C. (center of town to 1 mile north and east, 3 miles northwest, 8 miles southwest; town suburbs 80%, pastures and open farmlands 20%).—Dec. 31; 7:30 a.m. to 5 p.m. Cloudy with occasional sunshine; temp. 28° to 41°; wind NE, cold; ground bare. Eighteen observers in 9 parties. Total hours, 10; total miles, 8 (on foot). Cooper's Hawk, 3; Mourning Dove, 89; Yellow-shafted Flicker,7; Red-bellied Woodpecker, 1; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 2; Downy Woodpecker, 12; Blue Jay, 9; Am. Crow, 3; Carolina Chickadee, 35; Tufted Titmouse, 36; White-breasted Nuthatch, 10; Brown Creeper, 3; Carolina Wren, 18; Mockingbird, 5; Brown Thrasher, 1 (G.C.); Hermit Thrush, 1; Eastern Bluebird, 13; Ruby-crowned Kinglet, 9; Starling, 37; Myrtle Warbler, 31; Pine Warbler, 5; Eastern Meadowlark, 3; English Sparrow, 67; Cardinal, 54; Purple Finch, 23; Eastern Towhee, 11; Slate-colored Junco, 321; Field Sparrow, 97; White-throated Sparrow, 88; Fox Sparrow, 6; Savannah Sparrow, 8; Song Sparrow, 16. **Total,** 33 species; 1028 individuals.—Mrs. Fred H. May, Mr. and Mrs. J. B. Bernard, Mr. and Mrs. James Griggs, Mr. and Mrs. R. T. Greer, Bess Harper, Margaret Harper, Mr. and Mrs. S. B. Howard, F. H. May, Mr. and Mrs. Tom Parks, Mr. and Mrs. C. S. Warren, Mrs. K. A. Link, Gus Cloer (Lenoir Audubon Club).

154. Mt. Olive, N.C. (Wooten, Williams, and Brandon farms; open fields 50%, pine woods 10%, mixed pine and deciduous woods 35%, small ponds 5%).—Dec. 25; 7 a.m. to 5 p.m. Cloudy; temp. 28° to 45°; wind N, 8-12 m.p.h. Total hours, 10; total miles, 25 (7 on foot, 18 by car). Pied-billed Grebe, 3; Wood Duck, 1; Ring-necked Duck, 4; Turkey Vulture, 1; Black Vulture, 3; Red-shouldered Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 5; Bob-white, 38; Killdeer, 17; Mourning Dove, 56; Belted Kingfisher, 1; Yellow-shafted Flicker,, 30; Red-bellied Woodpecker, 3; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 4; Eastern Phoebe, 6; Blue Jay, 8; Am. Crow, 29; Carolina Chickadee, 11; Tufted Titmouse, 10; White-breasted Nuthatch, 2; Brown-headed Nuthatch, 5; Brown Creeper, 8; Winter Wren, 3; Carolina Wren, 16; Mockingbird, 12; Catbird, 1; Brown Thrasher, 2; Robin, 84; Hermit Thrush, 22; Eastern Bluebird, 18; Golden-crowned Kinglet, 9; Ruby-crowned Kinglet, 25; Am. Pipit, 17; Cedar Waxwing, 4; Loggerhead Shrike, 4; Starling, 35; Myrtle Warbler, 400 (est.); Pine Warbler, 3; Yellow-throat, 2; English Sparrow, 350 (est.); Eastern Meadowlark, 122; Red-wing, 46; Cardinal, 20; Pine Siskin, 6; Am. Goldfinch, 120; Eastern Towhee, 21; Savannah Sparrow, 6; Vesper Sparrow, 1; Slate-colored Junco, 250 (est.); Shipping Sparrow, 1; Field Sparrow, 60 (est.); White-throated Sparrow, 300 (est.); Fox Sparrow, 11; Swamp Sparrow, 3; Song Sparrow, 150 (est.). **Total,** 58 species; about 2377 individuals. (Large decrease in red-wings, sparrows, etc., is probably due to unfavorable weather conditions on day of count.)—Bob Holmes III.

155. Raleigh, N.C. (practically same area as previous counts; lakes and small ponds 40%, mixed pine and deciduous woodland 15%, deciduous woodland 10%, open fields 10% [total 75% as in 1948—Ed.]).—Dec. 27; 7:30 a.m. to 5:30 p.m. Fog early, with heavy clouds and occasional drizzle in a.m., clearing in p.m.; temp. 60° to 70°; calm; ground bare; water open. Eight observers in 6 parties. Total hours, 31 (27 on foot, 4 by car); total miles, 35 (27 on foot, 8 by car). Pied-billed Grebe, 3; Great Blue Heron, 1; Black Duck, 6; Baldpate, 27; Green-winged Teal, 4; Wood Duck, 1; Ring-necked Duck, 137; Canvas-back, 2; Lesser Scaup Duck, 4; Old-squaw, 1; Ruddy Duck, 2; Turkey Vulture, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 4; Bob-white, 8; Mourning Dove, 22; Belted Kingfisher, 2; Yellow-shafted Flicker, 14; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 5; Eastern Phoebe, 1; Blue Jay, 29; Am. Crow, 21; Carolina Chickadee, 10; Tufted Titmouse, 20; White-breasted Nuthatch, 2; Brown-headed Nuthatch, 12; Brown Creeper, 1; Winter Wren, 1; Carolina Wren, 25; Mockingbird, 27; Brown Thrasher, 1; Robin, 3; Eastern Bluebird, 54; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 27; Cedar Waxwing, 54; Loggerhead Shrike,

4; Starling, 984; Myrtle Warbler, 4; Pine Warbler, 2; English Sparrow, 51; Eastern Meadowlark, 35; Cardinal, 39; Purple Finch, 9; Am. Goldfinch, 40; Eastern Towhee, 14; Savannah Sparrow, 6; Vesper Sparrow, 3; Slate-colored Junco, 136; Field Sparrow, 37; White-throated Sparrow, 105; Fox Sparrow, 8; Swamp Sparrow, 3; Song Sparrow, 81. **Total,** 62 species; 2107 individuals.—D. L. Wray, Robt. Overing, Helen Olds, Philip Davis, J. W. Johnson, J. F. Greene, Virginia Pickelle, Ethel Wray.

156. Statesville, N.C. (center of Statesville, including Oakwood Cemetery, and farm and woodlands to east and northeast; area extended to John Long farm, Cliff Crawford farm, and William Allison farm; town and suburbs 35%, open farmland 35%, deciduous and mixed woodland 20%, lake and stream banks 5%, pine woodland 5%).—Dec. 31; 8 a.m. to 5:30 p.m. Partly cloudy; temp. 32° to 50°; wind 15 m.p.h. Eight observers in 3 parties. Total hours, 29 (17 on foot, 12 in car); total miles, 60 (28 on foot, 32 in car). Turkey Vulture, 10; Black Vulture, 2; Cooper's Hawk, 3; Red-shouldered Hawk, 3; Marsh Hawk, 2; Sparrow Hawk, 3; Bob-white, 3; Killdeer, 8; Mourning Dove, 6; Barred Owl, 1; Yellow-shafted Flicker, 3; Red-bellied Woodpecker, 6; Yellow-bellied Sapsucker, 3; Downy Woodpecker, 4; Eastern Phoebe, 3; Horned Lark, 25; Blue Jay, 18; Am. Crow, 26; Carolina Chickadee, 50; Tufted Titmouse, 35; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 1; Brown Creeper, 1; Carolina Wren, 50; Mockingbird, 60; Catbird, 1; Brown Thrasher, 1; Robin, 3; Eastern Bluebird, 85; Golden-crowned Kinglet, 2; Loggerhead Shrike, 3; Starling, 200; Myrtle Warbler, 2; English Sparrow, 150; Eastern Meadowlark, 20; Red-wing, 10; Purple Grackle, 25; Cardinal, 90; Am. Goldfinch, 60; Eastern Towhee, 12; Slate-colored Junco, 200; Field Sparrow, 25; White-throated Sparrow, 100; Fox Sparrow, 1; Song Sparrow, 30. **Total,** 45 species; 1349 individuals.—Cliff Crawford, Jane Eliason, Nancy Eliason, Vernan Floyd, Mary De Neal Long, Sarah M. Nooe, Anna Lyons Sullivan, W. G. Templeton.

157. Washington, N.C. (Pamlico River and Runyon Creek north, west over fields to vicinity of airport 1 mile from city, river borders of Chocowinity Swamp; river and shore 15%, wooded swampland 20%, open fields and field borders 40%, upland mixed woods 20%, small ponds 5%).—Dec. 24; 6:30 a.m. to 12:30 p.m.; 1:30 to 3:30 p.m. Clear to partly overcast; temp. 28° to 40°; no wind in a.m., NW 1-10 m.p.h. in p.m. Total hours, 8 (on foot); total miles, 8½. Red-shouldered Hawk, 2; Sparrow Hawk, 1; Bob-white, 12; Am. Coot, 1; Killdeer, 1; Wilson's Snipe, 2; Herring Gull, 25; Ring-billed Gull, 15; Mourning Dove, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 20; Red-bellied Woodpecker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 1; Eastern Phoebe, 2; Blue Jay, 15; Am. Crow, 6; Fish Crow, 1; Carolina Chickadee, 8; Tufted Titmouse, 2; Carolina Wren, 10; Mockingbird, 8; Catbird, 1; Eastern Bluebird, 4; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 2; Starling, 25; Myrtle Warbler, 30; Yellow-throat, 1; English Sparrow, 20; Eastern Meadowlark, 55; Red-wing, 270; Rusty Blackbird, 12; Cardinal, 10; Purple Finch, 4; Eastern Towhee, 2; Savannah Sparrow, 5; Slate-colored Junco, 90; Field Sparrow, 15; White-throated Sparrow, 70; Fox Sparrow, 25; Swamp Sparrow, 8; Song Sparrow, 15. **Total,** 43 species; 804 individuals.—Joseph D. Biggs.

158. Wilmington, N.C. (New Hanover and Brunswick counties; 5th count in area; Wrightsville Beach and Sound, Masonboro and Greenville sounds, Winter Park, Orton Plantation, Greenfield Lake, Pleasant Oaks; mixed pine and deciduous woodland 60%, fresh-water ponds and river 15%, beach and salt-water marsh 20%, pasture 5%).—Dec. 28; 6 a.m. until midnight. Ground fog in early a.m.; temp. 65 (max.) to 40°; wind moderate WNW shifting to NNE at 7:30 a.m., peak of 21 m.p.h. from NE at noon subsiding after 7 p.m. to 8-12 m.p.h.; ground bare; water open. Twenty-two observers in 8 parties. Total hours, 69 (35 on foot, 34 by car); total miles, 198 (48 on foot, 150 by car). Common Loon, 8; Red-throated Loon, 5; Horned Grebe, 7; Pied-billed Grebe, 19; Brown Pelican, 3; Gannet, 42; Double-crested Cormorant, 24; Great Blue Heron, 14; Am. Egret, 3; Snowy Egret, 12; Louisiana Heron, 14; Little Blue Heron, 2; Black-crowned Night Heron, 73; Canada Goose, 325; Mallard, 14; Black Duck, 3; European Widgeon, 1; Baldpate, 126; Pintail, 1; Green-winged Teal, 4; Wood Duck, 2; Redhead, 1; Ring-necked Duck, 41; Canvas-back, 1; Greater Scaup Duck, 2; Lesser Scaup Duck, 78; Am. Golden-eye, 2; Bufflehead, 5; Old-squaw, 1; Surf Scoter, 15; Ruddy Duck, 2; Hooded Merganser, 3; Red-breasted Merganser, 31; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 2; Red-shouldered Hawk, 7; Bald Eagle, 2; Marsh Hawk, 5; Osprey, 2; Sparrow Hawk, 17; Bob-white, 16; Clapper Rail, 1; Purple Gallinule, 1 (Orton); Florida Gallinule, 1; Am. Coot, 125; Am. Oyster-catcher, 3; Piping Plover, 3; Semipalmated Plover, 4; Killdeer, 19; Black-bellied Plover, 16; Woodcock, 1; Wilton's Snipe, 1; Greater Yellow-legs, 1; Lesser Yellow-legs, 6; Purple Sandpiper, 2 (1 seen on Oct. 3 and Oct. 15, 5 with 1 Ruddy Turnstone on Nov. 26 and Nov. 28; could be seen almost any time after that just after high tide, feeding on jetty at south end of Wrightsville Beach; some were also seen at Fort Fisher by Funderburg and McAllister; 2 collected; this is 2nd year); Red-backed Sandpiper, 125; Dowitcher, 12; Semipalmated Sandpiper, 5; Western Sandpiper, 1 (Paris), Sanderling, 3; Herring Gull, 800 (est.); Ring-billed Gull, 200 (est.); Laughing Gull, 1; Bonaparte's Gull, 4; Forster's Tern, 14; Royal Tern, 1 (McAllister); Caspian Tern, 1; Mourning Dove, 32; Belted Kingfisher, 7; Yellow-shafted Flicker, 18; Pileated Woodpecker, 4; Red-bellied Woodpecker, 8; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 6; Hairy Woodpecker, 1; Downy Woodpecker, 3; Red-cockaded Woodpecker, 5; Western

Kingbird, 1 (McAllister); Eastern Phoebe, 7; Tree Swallow, 3; Blue Jay, 76; Am. Crow, 520; Fish Crow, 16; Carolina Chickadee, 41; Tufted Titmouse, 77; White-breasted Nuthatch, 1 (Airlee Garden—Holmes, Corbett); Red-breasted Nuthatch, 18; Brown-headed Nuthatch, 142; House Wren, 6; Winter Wren, 3; Carolina Wren, 113; Long-billed Marsh Wren, 1; Mockingbird, 77; Catbird, 24; Brown Thrasher, 48; Robin, 1200 (est); Hermit Thrush, 8; Eastern Bluebird, 85; Blue-gray Gnatcatcher, 9; Golden-crowned Kinglet, 9; Ruby-crowned Kinglet, 18; Am. Pipit, 225; Cedar Waxwing, 125; Loggerhead Shrike, 23; Starling, 575 (est.); Solitary Vireo, 1; Myrtle Warbler, 892 (est.); Yellow-throated Warbler, 2 (1 in Airlee—Holmes, Corbett, 1 on Beane Estate—Cecil Appleberry, Crawford); Pine Warbler, 14; Palm Warbler, 5; Yellow-throat, 8; Hooded Warbler, 1 (McAllister; he has seen a ♂ and 2 ♀s near his house several times); English Sparrow, 69; Eastern Meadowlark, 142; Red-wing, 2325 (est.); Boat-tailed Grackle, 31; Purple Grackle, 1; Brown-headed Cowbird, 675; Cardinal, 66; Purple Finch, 23; Am. Goldfinch, 70; Eastern Towhee, 153; Savannah Sparrow, 31; Grasshopper Sparrow, 1; Henslow's Sparrow, 4; Sharp-tailed Sparrow, 1; Seaside Sparrow, 1; Vesper Sparrow, 8; Slate-colored Junco, 34; Chipping Sparrow, 111; Field Sparrow, 21; White-throated Sparrow, 451 (est.); Fox Sparrow, 6; Swamp Sparrow, 4; Song Sparrow, 84. **Total,** 136 species; about 11,059 individuals. For the first time on a count the tide was low early in the morning and a very strong cold wind in the late afternoon kept the shore birds in the marsh grass across the channel. (Seen in area just before and after count day: Ruddy Turnstone, Black Skimmer, Willet, 21 Knots [1 collected by Funderburg], Ipswich Sparrow [collected by Funderburg], Marbled Godwit, White-winged and American Scoters, Saw-whet Owl.)—Louise Forsyth, Bob Holmes III, Larry Crawford, Oscar Paris, Jr., John Trott, John Funderburg, Mrs. Sibbel Turnbull, Wilbur Corbett, Julia Theobald, Maurice Emmart, Claude and Don McAllister, Becky Near, Leona Carroll, Mrs. Gladys McMillan, Mary Urich, Ruth Loman, Mary Baker, Polly Mebane, J. A. Bodine, Cecil Appleberry, Edna Appleberry (Wilmington Natural Science Club).

159. Windom, N.C. (farms of L. H. Hutchins, Mack Silver, Mrs. C. P. Gibson, and adjacent territory; open farmland 50%, white pine woodland, 2%, pastures 18%, deciduous forests 30%).—Dec. 27; 8 a.m. to dusk. Partly cloudy; temp. 50° to 60°; no wind. Seven observers in 4 parties. Total hours; 28 (all on foot); total miles, 21. Cooper's Hawk, 2; Red-tailed Hawk, 1; Killdeer, 10; Wilson's Snipe, 6; Mourning Dove, 8; Black-billed Cuckoo, 1 (watched with unobstructed view for several minutes as it sat 35 ft. up a tree on a grown-up hillside, beak black, upper parts brownish with a little chestnut on wings; under parts white with a little streaking on throat—D.S.); Downy Woodpecker, 6; Blue Jay, 8; Am. Cow, 15; Black-capped Chickadee, 8; Tufted Titmouse, 16; Carolina Wren, 20; Mockingbird, 1; Eastern Bluebird, 5; Starling, 24; English Sparrow, 309; Eastern Meadowlark, 1; Cardinal, 51; Am. Goldfinch, 62; Eastern Towhee, 6; Slate-colored Junco, 133; Field Sparrow, 121; Song Sparrow, 276. **Total,** 23 species; 1090 individuals.—Roosevelt Hughes, Paul Hughes, Brook Boone, Donald Boone, Donald Styles, Wade Styles, James Hutchins.

160. Winston-Salem, N.C. (same area as in previous counts; city lake, city parks, Reynolda, Yadkin River; woodland 50%, old fields and cultivated fields 30%, lakes and rivers 20%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Intermittent rain; temp. 40° to 50°; wind 1-5 m.p.h. Twelve observers in 6 parties. Total hours, 35; total miles, 90 (30 by foot, 60 by car). Pied-billed Grebe, 1; Great Blue Heron, 3; Canada Goose, 303; Mallard, 20; Black Duck, 13; Pintail, 3; Ring-necked Duck, 20; Scaup Duck (sp.), 35; Cooper's Hawk, 1; Red-tailed Hawk, 1; Bob-white, 14; Killdeer, 7; Wilson's Snipe, 10; Mourning Dove, 28; Screech Owl, 1; Yellow-shafted Flicker, 13; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 4; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 3; Downy Woodpecker, 14; Eastern Phoebe, 2; Horned Lark, 75 (est.); Blue Jay, 11; Am. Crow, 41; Carolina Chickadee, 46; Tufted Titmouse, 38; White-breasted Nuthatch, 16; Brown Creeper, 3; Winter Wren, 3; Carolina Wren, 29; Mockingbird, 23; Robin, 1; Hermit Thrush, 2; Eastern Bluebird, 34; Golden-crowned Kinglet, 39; Ruby-crowned Kinglet, 10; Loggerhead Shrike, 2; Starling, 574 (est.); Myrtle Warbler, 9; English Sparrow, 7; Eastern Meadowlark, 13; Red-wing, 2; Purple Grackle, 25; Cardinal, 96; Purple Finch, 3; Am. Goldfinch, 22; Eastern Towhee, 16; Slate-colored Junco, 311; Field Sparrow, 118; White-throated Sparrow, 198; Fox Sparrow, 1; Song Sparrow, 76. **Total,** 53 species; about 2345 individuals.—E. Wayne Irvin, H. M. Magie, Rev. Douglas Rights, Graham Rights, Dr. and Mrs. Thos. W. Simpson, Mrs. James L. Stephenson, James L. Stephenson, Norval Walker, R. N. White, Orville White, Robert H. Witherington.

161. Charleston, S.C. (Bull's Island, adjacent waters and marshes, mainland opposite, back beyond Wando River, as in preceding years; about one-fourth of area within boundaries of Cape Romain National Wildlife Refuge; farmland 20%, fresh-water ponds and wooded swamps 25%, pine and mixed woods 25%, salt-water creeks, inlets, marshes and mudflats 25%, dunes and ocean front 5%).—Dec. 31; dawn to 5 p.m. Clear; temp. 38° to 55° to 48°; wind slight, rather fitful, E, 5-10 m.p.h.; low tide 11:11 a.m., high tide 4:58 p.m.; no frost, woods rather dry. Thirty-eight observers in 9 parties. Total hours, 135 (31½ afoot, 67½ by car, 36 by boat). Common Loon, 12; Red-throated Loon, 1; Horned Grebe, 167; Pied-billed Grebe, 21; Brown Pelican, 2; Gannet, 8; Double-crested Cormorant, 87; Water-turkey, 1; Great Blue Heron, 33; Am. Egret, 5; Snowy Egret, 11; Louisiana Heron,

26; Little Blue Heron, 24; Black-crowned Night Heron, 7; Am. Bittern, 1; Mallard, 19; Black Duck, 183; Gadwall, 20; Baldpate, 1; Pintail, 50; Green-winged Teal, 29; Blue-winged Teal, 34; Shoveller, 38; Wood Duck, 24; Redhead, 1; Ring-necked Duck, 557; Canvas-back, 200; Scaup Duck (sp.), 6; Am. Golden-eye, 7; Buffle-head, 109; Am. Scoter, 45; Ruddy Duck, 39; Hooded Merganser, 41; Red-breasted Merganser, 96; Turkey Vulture, 76; Black Vulture, 86; Sharp-shinned Hawk, 5; Cooper's Hawk, 2; Red-tailed Hawk, 5; Red-shouldered Hawk, 10; Bald Eagle, 17; Marsh Hawk, 28; Pigeon Hawk, 1; Sparrow Hawk, 10; Bob-white, 1; Turkey, 1; Clapper Rail, 26; Florida Gallinule, 5; Am. Coot, 300; Am. Oyster-catcher, 131; Semipalmated Plover, 403; Killdeer, 1; Black-bellied Plover, 133; Ruddy Turnstone, 14; Wilson's Snipe, 1; Hudsonian Curlew, 1; Spotted Sandpiper, 1; Willet, 33; Greater Yellow-legs, 21; Lesser Yellow-legs, 5; Knot, 4; Least Sandpiper, 4; Red-backed Sandpiper, 223; Dowitcher, 89; Semipalmated Sandpiper, 14; Western Sandpiper, 6; Marbled Godwit, 10; Sanderling, 65; Herring Gull, 98; Ring-billed Gull, 76; Bonaparte's Gull, 20; Forster's Tern, 4; Common Tern, 1; Royal Tern, 1; Caspian Tern, 5; Mourning Dove, 97; Ground Dove, 2; Horned Owl, 1; Belted Kingfisher, 47; Yellow-shafted Flicker, 34; Pileated Woodpecker, 10; Red-bellied Woodpecker, 26; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 21; Hairy Woodpecker, 1; Downy Woodpecker, 24; Red-cockaded Woodpecker, 14; Western Kingbird, 1 (checked by several observers, on Bull's Island for a number of days prior to count); Eastern Phoebe, 35; Wood Pewee, 1 (studied at 15-25 ft., Phoebe nearby—N.A.C., A.S.IV., *et al.*); Tree Swallow, 34; Blue Jay, 36; Am. Crow, 177; Fish Crow, 74; Carolina Chickadee, 52; Tufted Titmouse, 21; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 1 (N.H.S.—20 ft., clear view); Brown-headed Nuthatch, 16; Brown Creeper, 5; House Wren, 24; Winter Wren, 4; Carolina Wren, 27; Long-billed Marsh Wren, 1; Short-billed Marsh Wren, 1; Mockingbird, 35; Catbird, 4; Brown Thrasher, 18; Robin, 236; Hermit Thrush, 14; Eastern Bluebird, 39; Blue-gray Gnatcatcher, 4; Golden-crowned Kinglet, 27; Ruby-crowned Kinglet, 89; Am. Pipit, 36; Loggerhead Shrike, 30; Starling, 2; White-eyed Vireo, 3; Solitary Vireo, 10; Black and White Warbler, 1; Orange-crowned Warbler, 1; Myrtle Warbler, 505; Yellow-throated Warbler, 5; Pine Warbler, 64; Yellow-throat, 10; English Sparrow, 12; Eastern Meadowlark, 120; Red-wing, 807; Rusty Blackbird, 4; Boat-tailed Grackle, 7; Purple Grackle, 166; Cardinal, 95; Am. Goldfinch, 68; Eastern Towhee, 137 (Red-eyed, 124; White-eyed, 13); Savannah Sparrow, 19; Sharp-tailed Sparrow, 11; Seaside Sparrow, 14; Vesper Sparrow, 5; Slate-colored Junco, 29; Chipping Sparrow, 9; Field Sparrow, 55; White-throated Sparrow, 193; Fox Sparrow, 7; Swamp Sparrow, 32; Song Sparrow, 88. **Total,** 145 species (1 additional subspecies); about 7689 individuals (plus 600-700 sandpipers, ducks, etc., seen at unidentifiable distances). Again we are indebted to the personnel of the Cape Romain National Wildlife Refuge for invaluable aid, particularly to Messrs. Sturm and Mills, and Mr. and Mrs. Moffett.—Louise S. Barrington, Theodore A. Beckett, E. Milby Burton, B. Rhett Chamberlain, E. Burnham Chamberlain, Norman A. Chamberlain, Mr. and Mrs. Robert H. Coleman, Ernest A. Cutts, Mr. and Mrs. Robert D. Edwards, Peter Gething, Julian Harrison, Lois Hussey, Arthur Jenkins, Margaret King, Mr. and Mrs. I. S. H. Metcalf, Hoyt Mills, James Mosimann, Louis Parker, Mr. and Mrs. William Pielou, Catherine M. Pessino, John Quinby, George Rabb, Ann W. Richardson, James Roe, Miss Sandy, Miss Scotland, Newton Seebeck, Mr. and Mrs. Alexander Sprunt, Alexander Sprunt IV, Paul Sturm, Thomas Uzzell, Miss Van Vorst, Ellison A. Williams (Charleston Natural History Society).

162. Columbia, S.C. (center of Columbia, Richland Co., to Columbia Pipe Company 5 miles north of Columbia, Ardincaple, Earlewood Park, and to West Columbia, Horseshoe Lake, Hendrix's Pond, Roof's farm, Lexington County to 7 miles west of Columbia; other areas in Lexington County to a point 5 miles south of Columbia; urban territory 6%, pine woods 25%, deciduous woods 15%, cultivated fields 20%, broom fields 10%, pasture lands 9%, lake shore 15%).—Dec. 27; 7:15 a.m. to 5:30 p.m. Very foggy in early a.m., clearing in late p.m.; temp. 54° to 70°; calm. Nine observers in 2 parties. Total hours, 40 (36 on foot, 4 by car); total miles, 50 (30 on foot, 20 by car). Pied-billed Grebe, 5; Ring-necked Duck, 34; Turkey Vultrue, 1; Black Vulture, 14; sharp-shinned Hawk, 1; Sparrow Hawk, 4; Bob-white, 7; Am. Coot, 60; Rock Dove, 13 (on ledge of capitol building); Mourning Dove, 4; Yellow-shafted Flicker, 18; Red-bellied Woodpecker, 5; Downy Woodpecker, 3; Eastern Phoebe, 21; Blue Jay, 38; Am. Crow, 24; Carolina Chickadee, 7; Tufted Titmouse, 25; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 1; Brown-headed Nuthatch, 3; Brown Creeper, 6; Carolina Wren, 34; Mockingbird, 13; Brown Thrasher, 9; Robin, 8; Hermit Thrush, 10; Eastern Bluebird, 85; Golden-crowned Kinglet, 10; Ruby-crowned Kinglet, 31; Cedar Waxwing, 51; Loggerhead Shrike, 6; Starling, 519; Solitary Vireo, 1; Myrtle Warbler, 22; Pine Warbler, 21; Palm Warbler (Yellow), 1; Yellow-throat, 1; English Sparrow, 776; Eastern Meadowlark, 2; Brown-headed Cowbird, 5; Cardinal, 94; Am. Goldfinch, 9; Eastern Towhee, 53; Slate-colored Junco, 58; Chipping Sparrow, 642; Field Sparrow, 223; White-throated Sparrow, 153; Fox Sparrow, 6; Song Sparrow, 48. **Total,** 50 species; 3186 individuals.—Mr. and Mrs. Charles Eastman, Mr. and Mrs. Meeks, Jr., Mrs. B. S. Meeks, Sr., Mrs. P. B Hendrix, Mrs. G. E. Charles, Mrs. Clyde Sisson Gilbert Bristow (Columbia Nat. History Society).

163. Eastover, S.C. (Tom's Creek on Highway 764 to Wateree, up Hwy. 26 to Community Pond, down Hwy. 263 to Eastover; cultivated fields 33%, broom fields and grass-covered pasture 33%, deciduous and pine woods 14%, residential grounds

10%, swampy area around spring and ponds 10%). —Dec. 31; daylight to 5:30 p.m. Clear, becoming partly cloudy; temp. 32° to 65°; wind N, light; relative humidity 76%. Three observers together. Total miles, 20 (19½ in car, ½ on foot). Turkey Vulture, 2; Black Vulture, 8; Marsh Hawk, 1; Sparrow Hawk, 8; Killdeer, 10; Mourning Dove, 7; Yellow-shafted Flicker, 10; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 2; Downy Woodpecker, 1; Eastern Phoebe, 4; Blue Jay, 12; Am. Crow, 14; Carolina Chickadee, 4; Tufted Titmouse, 4; White-breasted Nuthatch, 1; Brown Creeper, 1; Carolina Wren, 4; Mockingbird, 6; Brown Thrasher, 3; Robin, 93; Hermit Thrush, 5; Eastern Bluebird, 25; Golden-crowned Kinglet, 3; Ruby-crowned Kinglet, 8; Am. Pipit, 117; Cedar Waxwing, 39; Loggerhead Shrike, 8; Starling, 150; Myrtle Warbler, 2; Pine Warbler, 25; Palm Warbler, 16; English Sparrows, 34; Eastern Meadowlark, 30; Purple Grackle, 1; Brown-headed Cowbird, 3; Cardinal, 25; Am. Goldfinch, 9; Eastern Towhee, 10; Savannah Sparrow, 4; Slate-colored Junco, 36; Chipping Sparrow, 24; Field Sparrow, 15; White-throated Sparrow, 142; Fox Sparrow, 22; Song Sparrow, 19. **Total,** 47 species; 979 individuals. —Anne Faver, Mrs. William H. Faver, Mrs. Clyde Sisson.

164. Spartanburg, S.C. (center of town to points 5 miles north, 6 miles south, 2 miles east, and 9 miles west; Ezell woods, Duncan Park, Fairforest meadow, Zimmerman lake, city park lake; Cleveland fish pond, Silver Lake; open farmlands 15%, town suburbs 20%, mixed woodlands 15%, fresh-water ponds, lakes, and marshes 50%).—Dec. 29; dawn to dusk. Clear, cold, damp underfoot; temp. 30° to 60°; no wind. Seven observers. [Total hours not stated—Ed.]. Total miles, 45 (5 on foot, 40 by car). Pied-billed Grebe, 6; Great Blue Heron, 2; Canada Goose, 1; Blue Goose, 1; Black Duck, 1; Canvas-back, 1; Lesser Scaup Duck, 12; Ruddy Duck, 1; Turkey Vulture, 15; Black Vulture, 35; Red-tailed Hawk, 1; Marsh Hawk, 5; Sparrow Hawk, 3; Florida Gallinule, 1; Killdeer, 8; Mourning Dove, 75; Barn Owl, 5; Yellow-shafted Flicker, 6; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 2; Downy Woodpecker, 3; Eastern Phoebe, 4; Blue Jay, 38; Am. Crow, 150+; Carolina Chickadee, 27; Tufted Titmouse, 7; Brown-headed Nuthatch, 6; Winter Wren, 1; Carolina Wren, 30; Mockingbird, 12; Brown Thrasher, 4; Robin, 2; Hermit Thrush, 1; Veery, 1 (identified by F.B. from its song [no further substantiating details; this species winters in Central and South America, and has not been taken in the United States at this season—Ed.]); Eastern Bluebird, 125; Golden-crowned Kinglet, 30; Ruby-crowned Kinglet, 14; Am. Pipit, 98; Loggerhead Shrike, 13; Starling, 2500+; Pine Warbler, 5; English Sparrow, 35; Eastern Meadowlark, 90; Redwing, 100+; Purple Grackle, 1200+; Cardinal, 42; Purple Finch, 7; Am. Goldfinch, 135; Eastern Towhee, 23; Savannah Sparrow, 2; Slate-colored Junco, 100+; Field Sparrow, 75; White-throated Sparrow, 100+; Fox Sparrow, 6 (singing); Swamp Sparrow, 12; Song Sparrow, 62. **Total,** 57 species; about 5244 individuals. (Two unidentified warblers, one probably immature Parula; other larger, with bright yellow throat and breast, no wing-bars. Myrtle and Palm Warblers seen Dec. 26 by S. Tucker McCravy and R. E. Rupp.)—Flora Beymer, Gabriel Cannon, Louisa Carlisle, Harold Correll, Ruth Crick, Margaret Hammond, Mrs. Margaret Y. Wall.

165. Athens, Ga. (center of town to points within 5-mile radius: Athens Country Club, waterworks lake, Sandy Creek bottomland, airport, and University dairy farm; pine woods 30%, open, plowed fields 25%, lakes 20%, grassy marsh 10%, broomsedge fields 5%, river bottomland and floodplain forest 5%, cultivated fields 3%, residential thickets 2%).—Dec. 28; 7:15 a.m. to 5:45 p.m. Partly cloudy at start, mostly clear and warm later; temp. 46° to 61°; wind E, 0-16 m.p.h. Total hours, 10½; total miles, 25 (17 by car, 8 on foot). Pied-billed Grebe, 4; Great Blue Heron, 1; Turkey Vulture, 7; Black Vulture, 16; Red-tailed Hawk, 2; Red-shouldered Hawk, 4 (2 birds observed actively constructing nest about 70 ft. high in a loblolly pine at country club); Sparrow Hawk, 2; Killdeer, 16; Mourning Dove, 7; Horned Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 16; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 1; Downy Woodpecker, 1; Eastern Phoebe, 5; Horned Lark, 50; Blue Jay, 12; Am. Crow, 21; Carolina Chickadee, 6; Tufted Titmouse, 5; Brown-headed Nuthatch, 5; Brown Creeper, 1; Winter Wren, 4; Bewick's Wren, 2; Carolina Wren, 19; Mockingbird, 10; Brown Thrasher, 5; Robin, 1; Hermit Thrush, 3; Eastern Bluebird, 26; Golden-crowned Kinglet, 17; Ruby-crowned Kinglet, 19; Am. Pipit, 2; Loggerhead Shrike, 1; Starling, 57; Solitary Vireo, 2; Myrtle Warbler, 12; Pine Warbler, 10; Palm Warbler, 4; Yellow-throat, 1; English Sparrow, 12; Eastern Meadowlark, 117; Redwing, 51; Cardinal, 30; Purple Finch, 1; Am. Goldfinch, 24; Eastern Towhee, 19; Savannah Sparrow, 54; Slate-colored Junco, 48; Chipping Sparrow, 72; Field Sparrow, 62; White-crowned Sparrow, 4 (all imm., 1 ♀ coll.); White-throated Sparrow, 79; Fox Sparrow, 5; Swamp Sparrow, 28; Song Sparrow, 72. **Total,** 57 species; 1060 individuals.—David W. Johnston.

166. Atlanta, Ga. (Lake Phoebe, Decatur, East Lake, South River, Hapeville, city reservoir, Chattahoochee River, and area between these points, residential 70%, mixed woods 15%, cultivated and abandoned fields 14%, pond and stream 1%).—Dec. 31; 7:30 a.m. to 5:30 p.m. Partly cloudy in a.m., clear in p.m.; temp. 37° to 54°, with mean of 42°; wind E, 10 m.p.h. Eighteen observers in 6 parties. Total hours, 43; total miles, 93 (24 on foot, 69 by car). Pied-billed Grebe, 19; Green Heron, 1 (R.C.W., H.M.); Ring-necked Duck, 2; Turkey Vulture, 10; Black Vulture, 8; Sharp-shinned Hawk, 1; Red-tailed Hawk, 4; Broad-winged Hawk, 2 (G.B.—tail markings and size

noted in good light at close range); Marsh Hawk, 1; Sparrow Hawk, 5; Bob-white, 18; Am. Coot, 2; Killdeer, 96; Wilson's Snipe, 7; Mourning Dove, 77; Belted Kingfisher, 2; Yellow-shafted Flicker, 14; Red-bellied Woodpecker, 5; Red-headed Woodpecker, 5; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 2; Downy Woodpecker, 10; Eastern Phoebe, 9; Horned Lark, 3; Blue Jay, 85; Am. Crow, 159; Carolina Chickadee, 48; Tufted Titmouse, 57; White-breasted Nuthatch, 26; Brown-headed Nuthatch, 7; Brown Creeper, 3; House Wren, 1; Winter Wren, 7; Carolina Wren, 51; Mockingbird, 31; Catbird, 1; Brown Thrasher, 10; Robin, 30; Hermit Thrush, 14; Eastern Bluebird, 58; Golden-crowned Kinglet, 66; Ruby-crowned Kinglet, 37; Am. Pipit, 241 (200±50, 41); Cedar Waxwing, 64; Loggerhead Shrike, 2; Starling, 116; Solitary Vireo, 2; Orange-crowned Warbler, 1; Myrtle Warbler, 40; Pine Warbler, 5; Palm Warbler, 4; Yellow-throat, 5; English Sparrow, 41; Eastern Meadowlark, 65; Redwing, 532 (500±100, 32); Rusty Blackbird, 16; Purple Grackle, 201 (200±25, 1); Brown-headed Cowbird, 35; Cardinal, 121; Purple Finch, 18; Am. Goldfinch, 115; Eastern Towhee, 133; Savannah Sparrow, 81; Vesper Sparrow, 6; Slate-colored Junco, 204; Chipping Sparrow, 160; Field Sparrow, 167; White-throated Sparrow, 229; Fox Sparrow, 25; Swamp Sparrow, 128; Song Sparrow, 217. **Total,** 71 species; about 3971 individuals.—Mrs. Harold S. Peters, Patricia Peters, V. A. Becker, Mrs. J. Morgan Smith, Eugenia Hume, Mrs. B. N. Willingham, Mrs. J. E. Boyd, Hugh Moore, Allen Peacock, Mrs. Lewis Gordon, Ralph L. Ramsey, Richard Sams, Ray C. Werner, Mrs. Ray C. Werner, Glenn Bell, Richard A. Parks, David W. Johnston, William W. Griffin (Atlanta Bird Club).

167. Cartersville, Ga. (Allatoona Reservoir, Allatoona Creek portion; Cartersville; Allatoona, Ga.; and areas between; cultivated and abandoned fields 60%, mixed woods 33%, residential 2%, pond and stream 5%).—Dec. 29; 8:30 a.m. to 5 p.m. Clear; temp. 35° to 60° to 50°; wind NE, 2-4 m.p.h. Two observers together. Total hours, 8½; total miles, 50 (6 on foot, 44 by car). Turkey Vulture, 3; Black Vulture, 6; Red-tailed Hawk, 1; Sparrow Hawk, 2; Killdeer, 6; Mourning Dove, 18; Belted Kingfisher, 1; Yellow-shafted Flicker, 2; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Eastern Phoebe, 3; Blue Jay, 2; Am. Crow, 12; Carolina Chickadee, 8; Tufted Titmouse, 4; Brown-headed Nuthatch, 3; Brown Creeper, 1; Winter Wren, 2; Bewick's Wren, 2; Carolina Wren, 10; Mockingbird, 2; Hermit Thrush, 2; Eastern Bluebird, 16; Golden-crowned Kinglet, 17; Ruby-crowned Kinglet, 6; Loggerhead Shrike, 3; Starling, 45; Myrtle Warbler, 1; Pine Warbler, 4; Palm Warbler, 1; English Sparrow, 4; Eastern Meadowlark, 11; Cardinal, 3; Purple Finch, 1; Am. Goldfinch, 21; Eastern Towhee, 9; Savannah Sparrow, 62; Henslow's Sparrow, 1; Vesper Sparrow, 4; Slate-colored Junco, 98; Chipping Sparrow, 37; Field Sparrow, 56; White-throated Sparrow, 8; Swamp Sparrow, 23; Song Sparrow, 57. **Total,** 46 species; about 581 individuals.—William W. Griffin, Ralph L. Ramsey.

168. Demorest, Ga. (center of town to points 4 miles north, south, east; town suburbs 10%, deciduous woods 20%, lake shore 35%, open fields 35%).— Jan. 1; 7 a.m. to 6 p.m. Clear in a.m., cloudy in p.m.; temp. 28° to 40° to 33°; wind SW, less than 1 m.p.h. Five observers together. Total hours, 11; total miles, 61 (8 on foot, 53 by car). Pied-billed Grebe, 12; Ring-necked Duck, 7; Hooded Merganser, 6; Turkey Vulture, 22; Black Vulture, 12; Red-tailed Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 1; Killdeer, 9; Mourning Dove, 88±; Belted Kingfisher, 1; Yellow-shafted Flicker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 2; Eastern Phoebe, 7; Blue Jay, 8; Am. Crow, 24; Carolina Chickadee, 21; Tufted Titmouse, 22; White-breasted Nuthatch, 4; Brown Creeper, 2; Winter Wren, 2; Bewick's Wren, 2; Carolina Wren, 15; Mockingbird, 9; Brown Thrasher, 1; Robin, 4; Hermit Thrush, 4; Eastern Bluebird, 53; Golden-crowned Kinglet, 30; Ruby-crowned Kinglet, 8; Cedar Waxwing, 20; Loggerhead Shrike, 2; Starling, 26; Myrtle Warbler, 2; Pine Warbler, 1; English Sparrow, 17; Eastern Meadowlark, 118±; Cardinal, 30; Am. Goldfinch, 34; Eastern Towhee, 26; Savannah Sparrow, 25; Slate-colored Junco, 60±; Field Sparrow, 155±; White-throated Sparrow, 52; Fox Sparrow, 1; Swamp Sparrow, 30; Song Sparrow, 65; **Total,** 48 species; about 1048 individuals. (Seen in area Dec. 25, Canada Goose, 69; Dec. 27, Lesser Scaup Duck, 2, Bob-white, 14, Pileated Woodpecker, 2, Yellow-bellied Sapsucker, 1; Jan. 2, Pine Siskin, 1.)—N. Cook, F. Griffin, W. W. Griffin, B. Nalls, D. Neal.

169. Sherwood and Birdsong Plantations (Grady Co.), Ga. (within 1500 acres; open fields and pastures 50%, pinelands and mixed hardwoods 30%, gum swamp and 6 ponds ranging in size from 1½ to 6 acres 20%).—Dec. 25; 6:15 a.m. to 7:30 p.m., 2 hours out at noon. Partly cloudy most of day; temp. 42° to 55°; wind ENE, 10-25 m.p.h., and very disagreeable for birds and observer. Total hours, 11; total miles, 27 (12 on foot, 15 by car). Pied-billed Grebe, 1; Water-turkey, 1; Great Blue Heron, 3; Baldpate, 43; Wood Duck, 2; Ring-necked Duck, 95; Turkey Vulture, 16; Black Vulture, 56; Red-tailed Hawk, 4; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 2; Bob-white, 43 (3 Coveys); Turkey, 9; Woodcock, 1; Wilson's Snipe, 3; Killdeer, 3; Mourning Dove, 192; Ground Dove, 1; Screech Owl, 2; Barred Owl, 1 (heard); Belted Kingfisher, 3; Yellow-shafted Flicker, 53; Pileated Woodpecker, 7; Red-bellied Woodpecker, 12; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 4; Downy Woodpecker, 5; Red-cockaded Woodpecker, 2; Eastern Phoebe, 7; Blue Jay, 13; Am. Crow, 23; Carolina Chickadee, 2; Tufted Titmouse, 6; White-breasted Nuthatch, 3; Brown-headed Nuthatch, 3; Brown Creeper, 1; House Wren, 7; Carolina Wren, 26; Mockingbird,

10; Catbird, 3; Brown Thrasher, 5; Robin, 68; Hermit Thrush, 29; Eastern Bluebird, 71; Ruby-crowned Kinglet, 19; Am. Pipit, 257; Loggerhead Shrike, 1; Solitary Vireo, 1; Myrtle Warbler, 234 (partly est.); Pine Warbler, 76; Palm Warbler, 17 (Western, 14; Yellow, 3—only extremely yellow birds listed as this subspecies); Yellow-throat, 10; Eastern Meadowlark, 12; Red-wing, 8; Purple Grackle, 8; Cardinal, 61; Purple Finch, 17; Am. Goldfinch, 27; Eastern Towhee, 34 (Red-eyed, 10; Alabama, 24—all listed as this race except males of the red-eye subspecies that were studied to good advantage); Savannah Sparrow, 3; Grasshopper Sparrow, 1; Vesper Sparrow, 35; Pine-woods Sparrow, 1; Chipping Sparrow, 184; Field Sparrow, 11; White-throated Sparrow, 124; Swamp Sparrow, 3; Song Sparrow, 3. **Total,** 69 species (2 additional subspecies); about 1996 individuals. (Seen in area Dec. 22-27, Horned Owl, 2; White-eyed Vireo, 1; Golden-crowned Kinglet, 1 (spec.); Tree Swallow, 3.—Herbert L. Stoddard, Sr.

170. Cedar Key, Fla. (coast to 4 miles northeast of Sumner; oak scrub, pine flatwoods, hardwood hammock, mud flats, mangrove swamp, and salt marsh).—Dec. 26; 8:45 a.m. to 8 p.m. Overcast and foggy until 9:45, then clear; temp. 65° to 75°; wind E, 3-5 m.p.h. Two observers together. Total hours, 11¼ (10¼ on foot, 1 by car); total miles, 35 (32 by car, 3 on foot). Common Loon, 2; Pied-billed Grebe, 1; Brown Pelican, 10; Double-Crested Cormorant, 54; Great Blue Heron, 12; Am. Egret, 10; Snowy Egret, 13; Louisiana Heron, 6; Little Blue Heron, 14; Black-crowned Night Heron, 2; Lesser Scaup Duck, 370 (est.); Red-breasted Merganser, 19; Turkey Vulture, 42; Black Vulture, 5; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 1; Marsh Hawk, 1; Osprey, 1; Sparrow Hawk, 7; Clapper Rail, 6; Virginia Rail, 1; Piping Plover, 1; Semipalmated Plover, 15; Killdeer, 25; Black-bellied Plover, 2; Wilson's Snipe, 1; Spotted Sandpiper, 6; Willet, 26; Least Sandpiper, 150; Red-backed Sandpiper, 10; Semipalmated Sandpiper, 10; Herring Gull, 43 est.); Ring-billed gull, 82 (est.); Laughing Gull, 2; Common Tern, 4; Royal Tern, 218 (est.); Black Skimmer, 181; Mourning Dove, 6; Ground Dove, 12; Barred Owl, 2; Robin, 80 (est.); Belted Kingfisher, 17; Yellow-shafted Flicker, 9; Pileated Woodpecker, 2; Red-bellied Woodpecker, 6; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 1; Red-cockaded Woodpecker, 1; Eastern Phoebe, 34; Tree Swallow, 3; Blue Jay, 7; Am. Crow, 7; Carolina Chickadee, 2; Tufted Titmouse, 3; Brown-headed Nuthatch, 2; House Wren, 5; Carolina Wren, 5; Mockingbird, 38; Catbird, 2; Brown Thrasher, 6; Eastern Bluebird, 30; Blue-gray Gnatcatcher, 4; Ruby-crowned Kinglet, 8; Loggerhead Shrike, 8; Black and White Warbler, 1; Myrtle Warbler, 37; Pine Warbler, 1; Palm Warbler, 10; Yellow-throat, 4; Am. Goldfinch, 40; English Sparrow, 50 (est.); Eastern Meadowlark, 31; Red-wing, 25; Cardinal, 39; Eastern Towhee, 44; Field Sparrow, 1; Song Sparrow, 2. **Total,** 81 species; about 1948 individuals.—John Dennis, Steve Fickett (Univ. of Florida).

171. Daytona Beach, Fla. (same area as last year; pinelands 15%, lagoons and ponds 18%, scrub 19%, fields 7%, town streets 4%, palmetto-deciduous 25%, beach 12%).—Dec. 28; 6:30 a.m. to 6 p.m. Overcast to clear in a.m., overcast to light drizzle in p.m.; temp. 60° to 70°; wind NE, 8-12 m.p.h. in a.m. increasing to 19-24 m.p.h. in p.m. Twenty observers in 5 parties. Total hours, 28¾ (18¾ by car, 10 on foot); total miles, 93½ (87½ by car, 6 on foot). Common Loon, 5; Pied-billed Grebe, 8; Brown Pelican, 269; Gannet, 6; Double-crested Cormorant, 849 (650 est., 199); Great Blue Heron (Ward's), 12; Am. Egret, 73; Snowy Egret, 13; Louisiana Heron, 118; Little Blue Heron, 57; Green Heron, 1; Black-crowned Night Heron, 5; Am. Bittern, 1; Wood Ibis, 19; Lesser Scaup Duck, 98; Red-breasted Merganser, 12; Turkey Vulture, 24; Black Vulture, 31; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 7; Broad-winged Hawk, 2; Bald Eagle, 2; Marsh Hawk, 2; Osprey, 4; Peregrine Falcon, 1; Pigeon Hawk, 1; Sparrow Hawk, 28; Bob-white, 14; King Rail, 2; Florida Gallinule, 7; Am. Coot, 28; Semipalmated Plover, 1; Killdeer, 10; Black-bellied Plover, 14; Ruddy Turnstone, 61; Spotted Sandpiper, 4; Knot, 62; Sanderling, 118; Herring Gull, 527 (300 est., 227); Ring-billed Gull, 2292 (1400 est., 892); Laughing Gull, 8; Bonaparte's Gull, 35; Forster's Tern, 101; Common Tern, 5; Royal Tern, 291; Black Skimmer, 605 (550 st., 55); Mourning Dove, 119; Ground Dove, 12; Belted Kingfisher, 27; Yellow-shafted Flicker, 20; Red-bellied Woodpecker, 19; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 4; Red-cockaded Woodpecker, 5; Eastern Phoebe, 50; Tree Swallow, 9; Blue Jay, 9; Scrub Jay (Florida), 4; Am. Crow, 3; Fish Crow, 1469 (1200 est., 269); Carolina Chickadee (Florida), 6; Tufted Titmouse, 6; Brown-headed Nuthatch (Gray-headed), 2; House Wren, 28; Carolina Wren (Florida), 7; Short-billed Marsh Wren, 2; Mockingbird, 58; Catbird, 19; Brown Thrasher, 3; Robin, 375 (100 est., 275); Eastern Bluebird, 39; Blue-gray Gnatcatcher, 7; Ruby-crowned Kinglet, 13; Loggerhead Shrike, 20; White-eyed Vireo, 1; Myrtle Warbler, 201; Pine Warbler, 12; Palm Warbler (Western), 131; Yellow-throat, 5; English Sparrow, 65; Eastern Meadowlark, 11; Red-wing, 39; Purple Grackle (Florida), 7; Brown-headed Cowbird, 9; Cardinal, 68; Am. Goldfinch, 56; Eastern Towhee, 32; Savannah Sparrow, 21; Vesper Sparrow, 1; Chipping Sparrow, 7; White-throated Sparrow, 1; Swamp Sparrow, 1; Song Sparrow, 5. **Total,** 94 species; about 8876 individuals. (Seen in area Dec. 24, Screech Owl, 1; Dec. 26, Horned Grebe, 1; Dec. 27, Red-backed Sandpiper, 1; Dec. 29, Piping Plover, 3; Dec. 30, Winter Wren, 1; Blue-headed Vireo, 1; Yellow-throated Warbler, 1; Dec. 31, Wilson's Snipe, 1; Jan. 1, Hermit Thrush, 1.)—F. B. Rich, H. F. Kortheuer, H. Rahn, B. O. Burdick, Mr. and Mrs. H. Schmucker, Mr. and Mrs. D. E.

Miller, Ruth Rogers, Mrs. E. J. Granville, Mrs. L. H. Trench, Mrs. F. C. Little, Mrs. R. P. Block, Mrs. G. F. Bakker, E. L. Mead, M. P. Hobbs, E. M. Porter, M. T. Rogers, I. E. Warden, R. S. Ames (Halifax River Bird Club).

172. Gainesville, Fla. (city limits south on Route 441 to Paynes Prairie; marsh, hardwood hammock, fields, lake region).—Dec. 29; 8 a.m. to 8 p.m. Clear; temp. 65° to 75°; wind NE, 3-5 m.p.h. Three observers together. Total hours, 12 (9 on foot, 3 by car); total miles, 24 (22 by car, 2 on foot). Pied-billed Grebe, 10; Double-crested Cormorant, 3; Water-turkey, 9; Great White Heron, 1 (in same area where seen for past few months; quite some distance from its normal range); Great Blue Heron, 10; Am. Egret, 40; Snowy Egret, 3; Louisiana Heron, 10; Little Blue Heron, 14; Black-crowned Night Heron, 6; Am. Bittern, 1; Mallard, 13; Gadwall, 250 (est.); Pintail, 4; Green-winged Teal, 40; Blue-winged Teal, 55; Wood Duck, 8; Ring-necked Duck, 150 (est.); Lesser Scaup Duck, 11; Turkey Vulture, 15; Black Vulture, 5; Sharp-shinned Hawk, 2; Red-tailed Hawk, 3; Red-shouldered Hawk, 4; Bald Eagle, 1; Marsh Hawk, 4; Osprey, 2; Sparrow Hawk, 7; Bob-white, 8; Florida Gallinule, 10; Am. Coot, 65 (est.); Killdeer, 10; Wilson's Snipe, 36; Ring-billed Gull, 2; Mourning Dove, 11; Ground Dove, 3; Robin, 400 (est.); Belted Kingfisher, 4; Yellow-shafted Flicker, 3; Pileated Woodpecker, 3; Red-bellied Woodpecker, 4; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 4; Downy Woodpecker, 6; Eastern Phoebe, 30; Tree Swallow, 12; Blue Jay, 7; Am. Crow, 25; Fish Crow, 150 (est.); Carolina Chickadee, 4; Tufted Titmouse, 3; House Wren, 4; Carolina Wren, 2; Mockingbird, 15; Brown Thrasher, 2; Yellow-throat, 4; Hermit Thrush, 1; Eastern Bluebird, 50 (est.); Blue-gray Gnatcatcher, 5; Ruby-crowned Kinglet, 5; Loggerhead Shrike, 5; Solitary Vireo, 4; Black and White Warbler, 2; Orange-crowned Warbler, 1; Magnolia Warbler, 1 (observed with 6x binoculars at 25 ft.; fairly dark above, a great deal of yellow below, a few rather light bands along flanks, and broad white band on tail); Myrtle Warbler, 10; Yellow-throated Warbler, 2; Pine Warbler, 1; Palm Warbler, 23; Am. Goldfinch, 250 (est.); English Sparrow, 6; Eastern Meadowlark, 10; Red-wing, 250 (est.); Boat-tailed Grackle, 12; Purple Grackle, 2; Brown-headed Cowbird, 15; Cardinal, 9; Eastern Towhee, 5; Vesper Sparrow, 7; Chipping Sparrow, 40 (est.); White-throated Sparrow, 6; Swamp Sparrow, 1; Song Sparrow, 12. **Total,** 83 species; about 2246 individuals.—Mr. and Mrs. Steve Fickett, Jr. and son (age 1½).

173. Jacksonville, Fla. (from center of town, 1st party—north, crossing Trout River, thence east, covering north side of Trout and St. Johns rivers to Little Talbot Island; 2nd party—south and east, covering south side of St. Johns River to Atlantic Ocean; high pineland 5%, flatwoods 15%, hammocks 10%, sand scrub 10%, swamps 8%, salt marshes 15%, sea beaches 18%, suburbs 10%, farmlands 5%, sand dunes 4%).—Dec. 26; dawn to dusk. Fair to slightly cloudy; temp. 58° to 76°; wind 1-4 m.p.h. Seven observers in 2 parties. Total hours, 23; total miles, 138 (12 on foot, 126 by car). Common Loon, 2; Pied-billed Grebe, 4; Brown Pelican, 200; Double-crested Cormorant, 70; Great Blue Heron (Ward's), 6; Am. Egret, 20; Snowy Egret, 15; Louisiana Heron, 5; Little Blue Heron, 40; Mallard, 1; Baldpate, 1; Wood Duck, 5; Lesser Scaup Duck, 14; Am. Golden-eye, 4; Hooded Merganser, 2; Red-breasted Merganser, 14; Turkey Vulture, 14; Black Vulture, 10; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 3; Bald Eagle, 1; Marsh Hawk, 4; Sparrow Hawk, 13; Bob-white, 10; King Rail, 2; Clapper Rail, 12; Florida Gallinule, 3; Am. Coot, 70; Semipalmated Plover, 100; Killdeer, 21; Black-bellied Plover, 6; Ruddy Turnstone, 10; Woodcock, 1; Wilson's Snipe, 5; Greater Yellow-legs, 12; Least Sandpiper, 100; Red-backed Sandpiper, 250; Dowitcher, 50; Semipalmated Sandpiper, 50; Western Sandpiper, 300; Sanderling, 20; Herring Gull, 300; Ring-billed Gull, 1000; Laughing Gull, 500; Bonaparte's Gull, 11; Forster's Tern, 100; Royal Tern, 400; Black Skimmer, 1000; Mourning Dove, 18; Ground Dove, 21; Horned Owl, 2; Belted Kingfisher, 15; Yellow-shafted Flicker, 35; Pileated Woodpecker, 2; Red-bellied Woodpecker, 11; Red-headed Woodpecker, 6; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 4; Eastern Phoebe, 35; Horned Lark (Prairie), 3 (rare); Tree Swallow, 400; Blue Jay, 25; Am. Crow, 4; Fish Crow, 100; Carolina Chickadee, 8; Tufted Titmouse, 20; Brown-headed Nuthatch, 5; House Wren, 40; Carolina Wren (Florida), 15; Long-billed Marsh Wren, 2; Short-billed Marsh Wren, 4; Mockingbird, 70; Catbird, 17; Brown Thrasher, 20; Robin, 400; Hermit Thrush, 8; Eastern Bluebird, 40; Blue-gray Gnatcatcher, 5; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 50; Am. Pipit, 11; Loggerhead Shrike, 40; Starling, 1000; White-eyed Vireo, 1; Solitary Vireo, 6; Orange-crowned Warbler, 3; Myrtle Warbler, 400; Yellow-throated Warbler, 2; Pine Warbler, 12; Palm Warbler (Western), 200; Yellow-throat, 11; English Sparrow, 150; Eastern Meadowlark, 40; Red-wing, 4; Purple Grackle, 100; Brown-headed Cowbird, 100; Cardinal, 40; Am. Goldfinch, 30; Eastern Towhee, 61 (Red-eyed, 60; White-eyed, 1); Savannah Sparrow, 100; Henslow's Sparrow, 1; Vesper Sparrow, 25; Pine-woods Sparrow, 1; Chipping Sparrow, 20; Field Sparrow, 6; White-throated Sparrow, 40; Swamp Sparrow, 40; Song Sparrow, 17. **Total,** 110 species (1 additional subspecies); about 8637 individuals.—S. A. Grimes, W. Gary, L. Culley, K. Hughes, Mrs. S. A. Grimes, Miss C. Buckland, R. R. McKay (Duval County Branch, Florida Audubon Society).

174. Key West, Fla. (Key West and Botanical Garden on Stock Island; mud flats, mangrove swamp, beaches, docks, and streets).—Dec. 26; 8 a.m. to 6 p.m. Partly cloudy with showers, visibility good; temp. 71° to 80°; wind ENE, moderate. Six observers together. Total miles, 22 (19 by car,

3 by foot). Brown Pelican, 6; Double-crested Cormorant, 18; Man-o'-war-bird, 6; Great White Heron, 1; Great Blue Heron (Ward's), 1; Am. Egret, 1; Black-crowned Night Heron, 1; Red-breasted Merganser, 3; Turkey Vulture, 2; Osprey, 2; Sparrow Hawk, 10; Am. Coot, 18; Semipalmated Plover, 8; Killdeer, 4; Black-bellied Plover, 4; Ruddy Turnstone, 9; Least Sandpiper, 3; Red-backed Sandpiper, 3; Dowitcher, 37; Semipalmated Sandpiper, 4; Herring Gull, 127; Ring-billed Gull, 1; Laughing Gull, 425 (est.); Royal Tern, 15; Mourning Dove, 11; White-winged Dove, 9; Ground Dove, 2; Belted Kingfisher, 1; Mockingbird, 6; Catbird, 5; Blue-gray Gnatcatcher, 2; Myrtle Warbler, 52; Palm Warbler (Western), 24; Red-wing, 1; Cardinal, 3; English Sparrow, 3; Painted Bunting, 2; Am. Goldfinch, 78; Savannah Sparrow, 1. **Total,** 39 species; 909 individuals.—Florence Baldwin, Louise White, Ellen McCaffery, Mr. and Mrs. Wallace Kirk, Frances Hames (Monroe County Audubon Society).

175. Miami, Fla. (area 15 miles in diameter centered at Coral Gables; city, parks, estates and golf courses 28%, open bay with 2 causeways 25%, mangrove swamp and salt marsh 3%, grove and pineland 17%, everglades, prairies, canals, and ponds 27%).—Dec. 26; [starting and stopping time not given—Ed.]. Cloudy with frequent showers; temp. 72° to 76°; wind E, av. 23.3 m.p.h., high 37 m.p.h. at 3 p.m. Nineteen observers in 7 parties. Total hours, 55½ (31 on foot, 24½ in car); total miles, 318 (28½ on foot, 289½ in car). Pied-billed Grebe, 9; Brown Pelican, 230; Double-crested Cormorant, 208; Man-o'-war-bird, 3; Great Blue Heron (Ward's), 11; Am. Egret, 2; Louisiana Heron, 7; Little Blue Heron, 16; Green Heron, 2; Black-crowned Night Heron, 1; Mallard, 10; Pintail, 8; Green-winged Teal, 15; Blue-winged Teal, 20; Shoveller, 9; Ring-necked Duck, 29; Lesser Scaup Duck, 153; Ruddy Duck, 10; Red-breasted Merganser, 8; Turkey Vulture, 92; Black Vulture, 25; Sharp-shinned Hawk, 3; Red-tailed Hawk, 2 (L.A.S.); Red-shouldered Hawk, 5; Broad-winged Hawk, 1; Marsh Hawk, 21; Osprey, 10; Peregrine Falcon, 1; Pigeon Hawk, 3; Sparrow Hawk, 96; Bob-white, 37; King Rail, 1; Sora, 1; Florida Gallinule, 15; Am. Coot, 264; Piping Plover, 38; Semipalmated Plover, 48; Killdeer, 275; Black-bellied Plover, 128; Ruddy Turnstone, 62; Wilson's Snipe, 3; Spotted Sandpiper, 6; Greater Yellow-legs, 14; Lesser Yellow-legs, 5; Least Sandpiper, 12; Red-backed Sandpiper, 30; Dowitcher, 97; Semipalmated Sandpiper, 27; Sanderling, 113; Herring Gull, 156; Ring-billed Gull, 962; Laughing Gull, 555; Royal Tern, 35; Caspian Tern, 3; Mourning Dove, 10; Ground Dove, 21; Barn Owl, 2; Screech Owl, 2; Burrowing Owl, 3; Barred Owl, 1; Ruby-throated Hummingbird, 11; Belted Kingfisher, 19; Yellow-shafted Flicker, 9; Pileated Woodpecker, 3; Red-bellied Woodpecker, 23; Hairy Woodpecker, 1; Downy Woodpecker, 5; Eastern Kingbird, 1 [no details—Ed.]; Crested Flycatcher, 1; Eastern Phoebe, 67; Tree Swallow, 659; Blue Jay, 26; House Wren, 45; Carolina Wren, 5; Short-billed Marsh Wren, 1; Mockingbird, 136; Catbird, 36; Brown Thrasher, 2; Robin, 9; Hermit Thrush, 1; Blue-gray Gnatcatcher, 77; Ruby-crowned Kinglet, 3; Loggerhead Shrike, 108; White-eyed Vireo, 8; Solitary Vireo, 3; Black and White Warbler, 7; Myrtle Warbler, 49; Yellow-throated Warbler, 1; Pine Warbler, 4; Prairie Warbler, 16; Palm Warbler (Western), 218; Oven-bird, 4; Northern Water-thrush, 2 (J.B.); Yellow-throat, 59; English Sparrow, 39; Eastern Meadowlark, 73; Red-wing, 542; Boat-tailed Grackle, 96; Purple Grackle, 60; Brown-headed Cowbird, 1 (J.B.); Cardinal, 77; Painted Bunting, 31; Am. Goldfinch, 123; Eastern Towhee (White-eyed), 2; Savannah Sparrow, 13. **Total,** 105 species; 7062 individuals.—John Bland, Mary Brewer, Ruth Brewer, Kenneth Close, Anna S. Cox, Kay Culpepper, Starr Culpepper, Dorothy Dee, Ina Harrington, Mr. and Mrs. C. W. Lundoff, Flora E. O'Brien, O. T. Owre, H. B. Owre, Coral Smith, Louis A. Stimson, Dorothy S. Stimson, Arthur I. Taft, Lucidia Wait (Miami Bird Club).

176. Monroe, Fla. (same area as in previous years, parts of Tamiami Trail and South Loop within a 15-mile circle; canal banks, cypress swamp, everglades 100%).—Dec. 30; [starting and stopping time not indicated—Ed.]. Slightly cloudy in a.m., showers in p.m.; temp. 68° to 77°; no wind in a.m., to NE, 20 m.p.h. in late p.m. Eight observers in 6 parties. Total party-hours, 54 (19 on foot, 35 in car); total miles, 91 (18 on foot, 73 in car). Pied-billed Grebe, 14; Double-crested Cormorant (Florida), 7; Water-turkey, 79; Great Blue Heron (Ward's), 94; Am. Egret, 607; Snowy Egret, 91; Louisiana Heron, 221; Little Blue Heron, 472; Green Heron, 42; Black-crowned Night Heron, 91; Yellow-crowned Night Heron, 11; Am. Bittern, 6; Wood Ibis, 72; White Ibis, 1004; Mallard, 1; Mottled Duck (Florida), 3; Blue-winged Teal, 12; Wood Duck, 2; Lesser Scaup Duck, 1; Turkey Vulture, 209; Black Vulture, 80; Sharp-shinned Hawk, 1; Cooper's Hawk, 2 (J.B.); Red-shouldered Hawk, 28; Broad-winged Hawk, 1; Bald Eagle, 2; Marsh Hawk, 7; Osprey, 7; Sparrow Hawk, 18; Bob-white, 13; Turkey, 2; Limpkin, 7; King Rail, 4; Florida Gallinule, 31; Am. Coot, 45; Killdeer, 12; Wilson's Snipe, 4; Spotted Sandpiper, 2; Greater Yellow-legs, 5; Lesser Yellow-legs, 2; Mourning Dove, 3; Ground Dove, 2; Barred Owl, 3; Chuck-will's-widow, 1 (J.B.); Ruby-throated Hummingbird, 3; Belted Kingfisher, 149; Yellow-shafted Flicker, 3; Pileated Woodpecker, 5; Red-bellied Woodpecker, 37; Yellow-bellied Sapsucker, 6; Hairy Woodpecker, 4; Downy Woodpecker, 5; Western Kingbird, 2 (J.B.); Crested Flycatcher, 14; Eastern Phoebe, 67; Tree Swallow, 165; Blue Jay, 1; Am. Crow, 59; Tufted Titmouse, 7; White-breasted Nuthatch, 1 (J.B.); House Wren, 31; Carolina Wren (Florida), 14; Long-billed Marsh Wren, 1; Mockingbird, 33; Catbird, 23; Robin, 25; Hermit Thrush, 1 (J.B.); Eastern Bluebird, 3; Blue-gray Gnatcatcher, 125; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 13; White-eyed Vireo, 17; Solitary Vireo, 5; Black and

White Warbler, 12; Parula Warbler, 2; Myrtle Warbler, 81; Yellow-throated Warbler, 4; Pine Warbler, 3; Palm Warbler (Western), 116; Ovenbird, 1; Northern Water-thrush, 2; Yellow-throat, 80; Eastern Meadowlark, 3; Red-wing, 12; Boat-tailed Grackle, 150; Purple Grackle, 34; Cardinal, 58; Painted Bunting, 3; Am. Goldfinch, 62; Savannah Sparrow, 5; Swamp Sparrow, 27. **Total,** 91 species; 4797 individuals.—John Bland, Mrs. Wm. V. Dee, Mrs. Roy Dickie, Mr. and Mrs. Edward F. Hill, Mr. and Mrs. Louis A. Stimson, Arthur I. Taft.

177. Myakka River State Park, Fla. (parts of Sarasota and Manatee Counties, same area as in 1947; prairie, with ponds, river, and swamps 75%, woodland, live oak, and cabbage palm 25%).—Dec. 28; 7 a.m. to 5:30 p.m. Overcast in a.m., partly clear in p.m.; temp. 65° to 75°; wind NE, 10-18 m.p.h. all day (accounting for scarcity of small birds). Three observers together (accompanied for 6 miles by Park Ranger, Coy L. Gill). Total hours, 10½ (6½ on foot, 4 by car); total miles, 31 (2 by foot, 29 by car). Pied-billed Grebe, 5; Double-crested Cormorant, 2; Water-turkey, 2; Great Blue Heron (Ward's), 16; Am. Egret, 44; Snowy Egret, 345; Louisiana Heron, 192; Little Blue Heron, 213; Wood Ibis, 126; White Ibis, 1041; Mallard, 176; Black Duck, 160; Baldpate, 3; Pintail, 139; Blue-winged Teal, 111; Ring-necked Duck, 34; Turkey Vulture, 18; Black Vulture, 112; Red-tailed Hawk, 4; Red-shouldered Hawk, 5; Bald Eagle, 1; Marsh Hawk, 4; Sparrow Hawk, 2; Bob-white, 27; Sandhill Crane, 14; King Rail, 1; Am. Coot, 13; Killdeer, 149; Wilson's Snipe, 13; Greater Yellow-legs, 6; Lesser Yellow-legs, 8; Least Sandpiper, 44; Dowitcher, 21; Ring-billed Gull, 5; Cabot's Tern, 6; Mourning Dove, 8; Ground Dove, 16; Barred Owl, 1; Belted Kingfisher, 6; Yellow-shafted Flicker, 3; Red-bellied Woodpecker, 1; Eastern Phoebe, 15; Tree Swallow, 195; Blue Jay, 3; Am. Crow, 29; House Wren, 11; Carolina Wren, 2; Mockingbird, 3; Catbird, 6; Brown Thrasher, 2; Robin, 26; Eastern Bluebird, 7; Blue-gray Gnatcatcher, 23; Loggerhead Shrike, 4; Magnolia Warbler, 12 [no details—Ed.]; Myrtle Warbler, 125; Black-throated Green Warbler, 1; Yellow-throated Warbler, 2; Palm Warbler, 105; Am. Goldfinch, 11; Bobolink, 30 [no details—Ed.]; Eastern Meadowlark, 20; Redwing, 141; Rusty Blackbird, 10; Boat-tailed Grackle, 9; Cardinal, 17; Eastern Towhee, 14; Grasshopper Sparrow, 1. **Total,** 68 species; 3921 individuals.—Coy L. Gill, Mary B. Brown, Grace McCarty, Paula Dillman.

178. Panacea, Fla. (Medart, Mashes Island, Bald Point, Peninsula Point, Turkey Point, Sopchoppy, and intermediate areas; Gulf beach 35%, bay shores 7%, salt marsh 8%, fresh-water lakes and ponds 11%, cultivated fields 3%, pine woods 14%, deciduous woods 12%, residential sections 2%, roadsides 8%).—Dec. 30; [starting and stopping time not indicated—Ed.]. Clear; temp. 52° to 73°; wind ENE, 5-20 m.p.h. Five observers in 2 to 4 parties. Total hours, 31 (27½ on foot, 2 by car, 1½ in canoe); total miles, 85 (22 on foot, 60 by car, 3 in canoe). Common Loon, 16; Horned Grebe, 7; Pied-billed Grebe, 13; Brown Pelican, 72; Double-crested Cormorant, 185; Great Blue Heron, 15; Am. Egret, 3; Louisiana Heron, 3; Little Blue Heron, 1; Canada Goose, 400; Blue-winged Teal, 3; Redhead, 40; Ring-necked Duck, 13; Lesser Scaup Duck, 3 (unidentified scaups, 42); Am. Golden-eye, 6; Buffle-head, 5; Hooded Merganser, 2; Red-breasted Merganser, 75; Turkey Vulture, 15; Black Vulture, 100; Cooper's Hawk, 2; Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Bald Eagle, 3; Marsh Hawk, 5; Sparrow Hawk, 10; King Rail, 1; Clapper Rail, 1; Small Rail (Virginia or Sora), 2; Am. Coot, 90; Piping Plover, 17; Snowy Plover, 17; Semipalmated Plover, 1; Killdeer, 26; Black-bellied Plover, 15; Ruddy Turnstone, 7; Wilson's Snipe, 5; Willet, 400; Knot, 11 (W.C., E.E.); Least Sandpiper, 21; Red-backed Sandpiper, 675; Dowitcher, 200; Semipalmated Sandpiper, 10; Western Sandpiper, 2; Marbled Godwit, 95 (W.C., E.E.); Sanderling, 185; Herring Gull, 50; Ring-billed Gull, 160; Laughing Gull, 20; Forster's Tern, 70; (*Sterna* sp., 5); Royal Tern, 50; Caspian Tern, 7; Mourning Dove, 13; Ground Dove, 8; Horned Owl, 1; Belted Kingfisher, 12; Yellow-shafted Flicker, 15; Pileated Woodpecker, 1; Red-bellied Woodpecker, 23; Yellow-bellied Sapsucker, 7; Downy Woodpecker, 10; Red-cockaded Woodpecker, 1; Eastern Phoebe, 25; Tree Swallow, 500; Blue Jay, 42; Am. Crow, 70; Fish Crow, 340; Carolina Chickadee, 20; Tufted Titmouse, 11; Brown-headed Nuthatch, 16; House Wren, 26; Carolina Wren, 7; Long-billed Marsh Wren, 6; Short-billed Marsh Wren, 2; Mockingbird, 17; Catbird, 2; Brown Thrasher, 11; Robin, 380; Hermit Thrush, 7; Eastern Bluebird, 55; Blue-gray Gnatcatcher, 3; Ruby-crowned Kinglet, 38; Am. Pipit, 40; Cedar Waxwing, 20; Loggerhead Shrike, 11; Starling, 1; White-eyed Vireo, 2; Solitary Vireo, 1; Orange-crowned Warbler, 3; Myrtle Warbler, 175; Yellow-throated Warbler, 1; Pine Warbler, 14; Prairie Warbler, 1 (black facial markings and bright yellow underparts seen with 7x50 glasses; 1st winter record—E.E.); Palm Warbler (2 subspp.), 30; Yellow-throat, 23; English Sparrow, 6; Eastern Meadowlark, 22; Red-wing, 3000; Boat-tailed Grackle, 31; Cardinal, 43; Purple Finch, 1 (H.S.); Am. Goldfinch, 46; Eastern Towhee, 110; Savannah Sparrow, 8; Grasshopper Sparrow, 1 (H.S.); Sharp-tailed Sparrow, 3; Seaside Sparrow, 4; Vesper Sparrow, 7; Pine-woods Sparrow, 1; Chipping Sparrow, 35; Field Sparrow, 6; White-throated Sparrow, 27; Swamp Sparrow, 8; Song Sparrow, 22. **Total,** 114 species (1 additional subspecies); 8587 individuals.—William Cross, Ernest P. Edwards, Barbara Lias, Henry M. Stevenson, Richard West.

179. Pensacola, Fla. (same territory as for many years; city and suburban areas 10%, open sound and bay and bay shores [largely by car] 25%, scrub oak barrens 2%, mature live oak and de-

ciduous woods 18%, pine woods 17%, fields, pastures, and cut-over woodlands [mostly by car] 16%, fresh-water wooded swamps 2%, fresh-water open ponds 6%, salt marshes 1%, Gulf beach and dunes 3%).—Dec. 26; 6:45 a.m. to 5 p.m. (sunrise to sunset). Cloudy, clearing in p.m.; temp. 53° to 64° to 62°; wind E, 10 m.p.h., shifting to SE and abating to calm by 3:30 p.m. Eight observers in 3 parties. Total hours, 30 (14 by car, 16 on foot); total miles, 122 (107 by car, 15 on foot). Common Loon, 34; Horned Grebe, 32; Pied-billed Grebe, 10; Brown Pelican, 84; Gannet (rare in the Gulf), 21; Double-crested Cormorant, 68; Great Blue Heron, 4; Am. Bittern, 1; Gadwall, 8; Ring-necked Duck, 131; Scaup Duck (sp.), 94; Am. Golden-eye, 28; Bufflehead, 1; Red-breasted Merganser, 67; Turkey Vulture, 4; Black Vulture, 38; Sharp-shinned Hawk, 1; Marsh Hawk, 4; Sparrow Hawk, 11; Bob-white, 6; Am. Coot, 26; Killdeer, 36; Black-bellied Plover, 13; Wilson's Snipe, 3; Willet (rare in winter), 2; Red-backed Sandpiper, 3; Sanderling, 14; Herring Gull, 56; Ring-billed Gull, 74; Laughing Gull, 17; Bonaparte's Gull, 6; Forster's Tern, 29; Common Tern, 4; Royal Tern, 53; Mourning Dove, 8; Belted Kingfisher, 7; Yellow-shafted Flicker, 37; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 3; Yellow-bellied Sapsucker, 3; Downy Woodpecker, 2; Eastern Phoebe, 25; Blue Jay, 105; Am. Crow and Fish Crow (some of each species identified by sound, count made of all seen), 78; Carolina Chickadee, 5; Tufted Titmouse, 28; Brown-headed Nuthatch, 10; Brown Creeper, 5; House Wren, 10; Carolina Wren, 16; Mockingbird, 70; Brown Thrasher, 20; Robin, 768 (500 est., 268); Hermit Thrush, 4; Eastern Bluebird, 35; Blue-gray Gnatcatcher, 18; Golden-crowned Kinglet, 5; Ruby-crowned Kinglet, 67; Am. Pipit, 138 (100 est., 38); Cedar Waxwing, 5; Loggerhead Shrike, 26; Starling, 35; Solitary Vireo, 9; Black and White Warbler (very rare in winter), 1; Orange-crowned Warbler, 11; Myrtle Warbler, 255; Yellow-throated Warbler, 8; Pine Warbler, 51; Palm Warbler (typical examples of both Western and Yellow identified), 42; Yellow-throat, 5; Yellow-breasted Chat, 1 (2nd known winter occurrence in 34 years; well known to all observers, rarity in winter appreciated at time of observation—F.M.W., G.W.W., A.F.W.,Jr.); English Sparrow, 61; Eastern Meadowlark, 49; Red-wing, 77; Cardinal, 45; Am. Goldfinch, 47; Eastern Towhee (Alabama), 36; Savannah Sparrow, 19; Seaside Sparrow, 3; Vesper Sparrow, 3; Pine-woods Sparrow (Bachman's), 5; Slate-colored Junco (very rare), 3; Chipping Sparrow, 7; Field Sparrow, 23; White-throated Sparrow, 156; Swamp Sparrow, 6; Song Sparrow, 23. **Total,** 88 species (1 additional subspecies); about 3469 individuals. (Seen in area on Jan. 1; Cooper's Hawk, 1; Caspian Tern, 1; Tree Swallow, 2; Bewick's Wren [rare], 1.)—Frank Bray, Lyman E. Goodnight, Charles J. Kahn, Alan C. Sheppard, Maleta M. Wernicke, Francis M. Weston, Geneva W. Weston, A. Frederick Wicke, Jr. (Francis M. Weston Society of Natural History).

180. St. Augustine, Fla. (Crescent Beach and marshes, Dupont Center, Moultrie, Vail Point, Conch Island and Crazy Bank in St. Augustine Bay, North River marshes, Vilano Beach, and St. John's River; salt marshes 15%, pine and palmetto scrub 15%, cypress swamp 10%, beach hammock 5%, town pond and hedgerow 20%, dunes 5%, sand bar 10%, open sea 1%, open river 1%, sloughs 10%, town parks 1%, open farmland 5%, wooded farmland 2%).—Dec. 26; dawn to dusk. Fair to partly cloudy with occasional showers; temp. 64° to 74°; wind SE, gentle; tide high (St. Augustine Inlet) at noon; ocean rough—small boat warnings still up from strong NE gale on 25th; inside waters calm. Six observers in 4 parties. Total hours, 31¼; total miles, 19; (18 on foot, 1 by boat). Common Loon, 1; Horned Grebe, 3; Pied-billed Grebe, 6; Brown Pelican, 529; Gannet, 25; Double-crested Cormorant, 503; Water-turkey, 9; Great Blue Heron, 47; Am. Egret, 164; Snowy Egret, 97; Louisiana Heron, 65; Little Blue Heron, 47; Green Heron, 2; Black-crowned Night Heron, 23; Yellow-crowned Night Heron, 10; Am. Bittern, 1; Wood Ibis, 12; Black Duck, 29; Wood Duck, 7; Lesser Scaup Duck, 25; Hooded Merganser, 4; Red-breasted Merganser, 55; Turkey Vulture, 8; Black Vulture, 23; Red-tailed Hawk, 6; Red-shouldered Hawk, 5; Broad-winged Hawk, 1; Marsh Hawk, 4; Osprey, 2; Sparrow Hawk, 16; Bob-white, 18; King Rail, 1; Clapper Rail, 22; Sora, 2; Florida Gallinule, 1; Am. Coot, 435; Oyster-catcher, 6; Piping Plover, 26; Semipalmated Plover, 103; Wilson's Plover, 53; Killdeer, 26; Black-bellied Plover, 410; Ruddy Turnstone, 109; Wilson's Snipe, 3; Spotted Sandpiper, 1; Willet, 19; Greater Yellow-legs, 14; Knot, 2; Least Sandpiper, 128; Red-backed Sandpiper, 518; Dowitcher, 150; Semipalmated Sandpiper, 500; Western Sandpiper, 200; Marbled Godwit, 3; Sanderling, 527; Black-necked Stilt, 10; Herring Gull, 427; Ring-billed Gull, 1808; Laughing Gull, 110; Bonaparte's Gull, 154; Forster's Tern, 200; Common Tern, 58; Least Tern, 50; Royal Tern, 501; Caspian Tern, 25; Black Tern, 1 [no details—Ed.]; Black Skimmer, 750; Mourning Dove, 1; Ground Dove, 31; Barn Owl, 2; Horned Owl, 2; Belted Kingfisher, 15; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 5; Red-headed Woodpecker, 5; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 5; Eastern Phoebe, 21; Tree Swallow, 4; Blue Jay, 26; Scrub Jay, 2; Am. Crow, 13; Fish Crow, 3; Carolina Chickadee, 9; Tufted Titmouse, 16; Brown-headed Nuthatch, 1; House Wren, 3; Carolina Wren, 11; Long-billed Marsh Wren, 1; Mockingbird, 93; Catbird, 3; Brown Thrasher, 1; Robin, 95; Eastern Bluebird, 110; Blue-gray Gnatcatcher, 1; Ruby-crowned Kinglet, 9; Cedar Waxwing, 12; Loggerhead Shrike, 26; Starling, 1; White-eyed Vireo, 2; Solitary Vireo, 1; Parula Warbler, 2; Myrtle Warbler, 1010; Yellow-throated Warbler, 2; Pine Warbler, 5; Palm Warbler, 38; Yellow-throat, 3; English Sparrow, 34; Eastern Meadowlark, 78; Red-wing, 202; Rusty Blackbird, 12; Purple Grackle, 31; Brown-headed Cowbird, 4; Cardinal, 50; Am. Goldfinch, 23; Eastern Towhee, 32 (Red-eyed, 28; White-eyed, 4); Savannah Sparrow, 64;

Leconte's Sparrow, 1; Grasshopper Sparrow, 1; Sharp-tailed Sparrow, 12; Seaside Sparrow, 1; Vesper Sparrow, 3; Pine-woods Sparrow, 1; Slate-colored Junco, 1; Chipping Sparrow, 2; White-throated Sparrow, 6; Song Sparrow, 7. **Total,** 127 species (1 additional subspecies); about 11,271 individuals.—Mrs. Clifford Pangburn, Henry Kritzler, William S. Weff, Herschel J. McCallum, Merritt and Margaret Farrar.

181. St. Marks, Fla. (1948 circle shifted slightly westward to include Crawfordville; other additional areas in 1949 include: Wakulla River [by canoe], hammocks west of Wakulla River, and fields east of Crawfordville: bay shores 20%, fresh-water and brackish lakes and ponds 15%, fresh- and salt-water marshes 10%, cypress-gum swamps 2%, cultivated and uncultivated fields 3%, pine woods 2%, deciduous woods 20%, roadsides 10%, on river in canoe 18%).—Dec. 28; [starting and stopping time not indicated—Ed.]. Cloudy, clearing by noon; temp. 59° to 73°; wind NE, 5-15 m.p.h. Six observers in 3 to 4 parties. Total hours, 36 (26¼ on foot, 3 in car, 6¾ by canoe); total miles, 91 (23 on foot, 58 in car, 10 by canoe). Common Loon, 3; Horned Grebe, 14; Pied-billed grebe, 77; White Pelican, 1; Double-crested Cormorant, 70; Water-turkey, 60; Great Blue Heron, 26; Am. Egret, 157; Snowy Egret, 3; Louisiana Heron, 16; Little Blue Heron, 24; Green Heron, 3 (H.S., B.L., E.P.E.); Black-crowned Night Heron, 26; White Ibis, 2 (W.C.); Canada Goose, 1400; Blue Goose, 14; Mallard, 70; Black Duck, 19; Gadwall, 75; Baldpate, 160; Pintail, 240; Green-winged Teal, 75; Blue-winged Teal, 25; Shoveller, 36; Wood Duck, 26; Redhead, 80; Ring-necked Duck, 100; Canvas-back, 20; Greater Scaup Duck, 10; Lesser Scaup Duck, 130 (unidentified scaup ducks, 80); Am. Golden-eye, 2; Buffle-head, 26; Ruddy Duck, 60; Hooded Merganser, 9; Red-breasted Merganser, 20; Turkey Vulture, 90; Black Vulture, 95; Sharp-shinned Hawk, 3; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 6; Bald Eagle, 4; Marsh Hawk, 11; Sparrow Hawk, 6; Bob-white, 10; Limpkin, 3; Clapper Rail, 4; Florida Gallinule, 7; Am. Coot, 5140; Semipalmated Plover, 30; Killdeer, 18; Black-bellied Plover, 22; Wilson's Snipe, 3; Willet, 35; Greater Yellow-legs, 32; Knot, 1 (medium-sized, stocky uniformly gray shorebird, with light line over eye, whitish tail and coverts, and straight, heavy bill; H.S., B.L., and E.E., but seen at same place by many other observers in early December); Least Sandpiper, 17; Red-backed Sandpiper, 200; Dowitcher, 2; Semipalmated Sandpiper, 6; Sanderling, 10 (W.C.); Herring Gull, 25; Ring-billed Gull, 80; Laughing Gull, 1; Forster's Tern, 1; Mourning Dove, 8; Barred Owl, 3; Belted Kingfisher, 37; Yellow-shafted Flicker, 54; Pileated Woodpecker, 18; Red-bellied Woodpecker, 26; Red-headed Woodpecker, 3; Yellow-bellied Sapsucker, 11; Hairy Woodpecker, 2; Downy Woodpecker, 16; Eastern Phoebe, 72; Tree Swallow, 125; Blue Jay, 64; Am. Crow, 39; Carolina Chickadee, 31; Tufted Titmouse, 45; Brown-headed Nuthatch, 2; Brown Creeper, 2; House Wren, 23; Winter Wren, 1; Carolina Wren, 23; Long-billed Marsh Wren, 9; Short-billed Marsh Wren, 4; Mockingbird, 47; Catbird, 1; Brown Thrasher, 13; Robin, 45; Hermit Thrush, 26; Eastern Bluebird, 24; Blue-gray Gnatcatcher, 20; Golden-crowned Kinglet, 5; Ruby-crowned Kinglet, 100; Am. Pipit, 6; Cedar Waxwing, 4; Loggerhead Shrike, 9; Starling, 40; Solitary Vireo, 6; Black and White Warbler, 3; Orange-crowned Warbler, 6; Myrtle Warbler, 340; Yellow-throated Warbler, 5; Pine Warbler, 20; Palm Warbler (2 supspp.), 23; Oven-bird, 1 (H.S.); Yellow-throat, 37; English Sparrow, 15; Eastern Meadowlark, 34; Red-wing, 600; Boat-tailed Grackle, 95; Purple Grackle, 1; Cardinal, 56; Purple Finch, 1 (H.S.); Am. Goldfinch, 55; Eastern Towhee, 25; Savannah Sparrow, 19; Sharp-tailed Sparrow, 6; Seaside Sparrow, 13; Vesper Sparrow, 18; Slate-colored Junco, 1 (H.S.); Chipping Sparrow, 5; Field Sparrow, 1; White-throated Sparrow, 26; Swamp Sparrow, 21; Song Sparrow, 17. **Total,** 129 species (1 additional subspecies); about 11,434 individuals.—William Cross, Ernest P. Edwards, Barbara Lias, Bill Perry, Henry M. Stevenson, Richard West.

182. St. Petersburg, Fla. (Gulfport, Pass-a-Grille, Gulf Beaches, Shore Acres, Snell Isle and inland south of Largo; sea beaches and lake shores 40%, road sides 25%, woods 18%, marsh 5%, airport, golf courses, and pastures 10%, jungle 2%).—Dec. 27; [starting and stopping time not indicated—Ed.]. Clear with local showers in p.m.; temp. 64° to 80°; Wind E, 0-15 m.p.h. Thirty-one observers in 10 parties. Total hours, 87 (45 by car, 42 on foot); total miles, 309 (270 by car, 39 on foot). Common Loon, 8; Horned Grebe, 6; Pied-billed Grebe, 35; Brown Pelican, 1633; Double-crested Cormorant, 601; Man-o'-war-bird, 3; Great Blue Heron (including Ward's), 39; Am. Egret, 125; Snowy Egret, 95; Louisiana Heron, 98; Little Blue Heron, 163; Green Heron, 5; Yellow-crowned Night Heron, 8; Wood Ibis, 153; White Ibis, 595; Mottled Duck, 3; Pintail, 150; Blue-winged Teal, 18; Redhead, 2; Ring-necked Duck, 48; Lesser Scaup Duck, 1360; Ruddy Duck, 52; Hooded Merganser, 2; Red-breasted Merganser, 263; Turkey Vulture, 78; Black Vulture, 72; Cooper's Hawk, 3; Red-tailed Hawk, 2; Red-shouldered Hawk, 2; Bald Eagle, 35; Marsh Hawk, 11; Osprey, 1; Sparrow Hawk, 47; Bob-white, 70; Clapper Rail, 2; Sera, 2; Florida Gallinule, 34; Am. Coot, 2071; Piping Plover, 47; Snowy Plover, 27; Semipalmated Plover, 117; Wilson's Plover, 45; Killdeer, 274; Black-bellied Plover, 141; Ruddy Turnstone, 352; Spotted Sandpiper, 23; Willet, 171; Greater Yellow-legs, 12; Lesser Yellow-legs, 31; Knot, 18; Least Sandpiper, 203; Red-backed Sandpiper, 140; Dowitcher, 108; Semipalmated Sandpiper, 212; Western Sandpiper, 25; Marbled Godwit, 10; Sanderling, 550; Herring Gull, 399; Ring-billed Gull, 2314; Laughing Gull, 424; Bonaparte's Gull, 16; Forster's Tern, 149; Royal Tern, 519; Cabot's Tern, 30; Caspian Tern, 35; Black Skimmer, 759; Mourning Dove, 177; Ground Dove, 69; Horned Owl, 1; Belted Kingfisher, 60; Yellow-

shafted Flicker, 21; Red-bellied Woodpecker, 44; Red-headed Woodpecker, 6; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 4; Eastern Phoebe, 40; Tree Swallow, 37; Blue Jay, 40; Fish Crew, 75; Brown-headed Nuthatch, 6; House Wren, 29; Carolina Wren, 2; Long-billed Marsh Wren, 1; Short-billed Marsh Wren, 2; Mockingbird, 270; Catbird, 32; Brown Thrasher, 3; Robin, 830; Eastern Bluebird, 111; Blue-gray Gnatcatcher, 21; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 109; White-eyed Vireo, 1; Solitary Vireo, 4; Red-eyed Vireo, 2 [no details—Ed.]; Black and White Warbler, 7; Myrtle Warbler, 609; Yellow-throated Warbler, 4; Pine Warbler, 26; Prairie Warbler, 4; Palm Warbler (Western), 525; Yellow-throat, 32; English Sparrow, 59; Eastern Meadowlark, 58; Red-wing, 708; Boat-tailed Grackle, 204; Brown-headed Cowbird, 200; Cardinal, 47; Am. Goldfinch, 221; Eastern Towhee (Red-eyed and White-eyed), 69; Savannah Sparrow, 55; Seaside Sparrow, 1; Swamp Sparrow, 1. **Total,** 114 species; 19,879 individuals. Mrs. Mills reported 4 Great Blue Herons (Ward's), 2 Bald Eagles, and 1 Horned Owl on nests.—Marie Cobb, E. N. Gleisner, Mrs. Ettie L. Weenink, Albert Dietrich, Mr. and Mrs. Buckhart, Miss Kelly, Cleora Adams, C. N. Moore, H. S. Slocum, Mary Lou Mills, Joe Reed, Jim Farber, Dick Norenberg, Albert Fredericks, Hansi Lischka, Martha Buckwald, Nellie G. Green, M. B. Hanrahan, Jack Williams, William Baxter, Wm. G. Fargo, Marjorie Quirin, Mr. and Mrs. A. F. Satterthwait, Mrs. J. C. Williams, Lt. Col. and Mrs. H. B. Dawson, Molly Rutherford, Christie Mason, Daisie M. Morrison (St. Petersburg Audubon Society, Bird and Tree Circle of St. Petersburg Garden Club, and 4 Eagle scouts).

183. Tallahassee, Fla. (limits of circle as in 1948 count; additional areas in 1949 include: north end of Lake Jackson, Messer Plantation, and southwestern edge of Tallahassee; open shores of lakes and ponds 27%, wooded shores of lakes and ponds 15%, marshes 6%, cultivated fields 4%, pastures and old fields 9%, pine woods 13%, deciduous woods 7%, residential sections 8%, on lake in boat 11%; water level at Lake Lafayette much lower than on preceding counts, with shorebirds and pipits replacing diving ducks).—Dec. 26; [starting and stopping time not indicated—Ed.]. Cloudy, clearing by 11:30; temp. 57° to 77°; wind NE, 0-10 m.p.h. Seven observers in 3 to 5 parties. Total hours, 34 (27½ on foot, 2½ in car, 4 by boat); total miles, 79½ (38 on foot, 35 in car, 6½ by boat). Horned Grebe, 37; Pied-billed Grebe, 150; Double-crested Cormorant, 35; Water-turkey, 20; Great Blue Heron, 15; Am. Egret, 11; Snowy Egret, 1 (W.C.); Louisiana Heron, 1; Am. Bittern, 1 (Randels); Canada Goose, 400; Mallard, 47; Black Duck, 10; Gadwall, 5; Baldpate, 2; Pintail, 50; Green-winged Teal, 10; Blue-winged Teal, 6; Shoveller, 5; Wood Duck, 6; Ring-necked Duck, 4650; Canvas-back, 9; Lesser Scaup Duck, 3; Am. Golden-eye, 1; Buffle-head, 28; Ruddy Duck, 98; Turkey Vulture, 27; Black Vulture, 6; Sharp-shinned Hawk, 1; Red-tailed Hawk, 7; Red-shouldered Hawk, 8; Bald Eagle, 5; Marsh Hawk, 7; Sparrow Hawk, 16; Bob-white, 37; Am. Coot, 1625; Killdeer, 183; Wilson's Snipe, 54; Greater Yellow-legs, 4; Least Sandpiper, 39; Herring Gull, 10; Ring-billed Gull, 60; Bonaparte's Gull, 20 (associating with Horned Grebes; small size, wing pattern, and spot on head noted; several other December records here—W.C.); Forster's Tern, 8; (*Sterna* sp., 10); Mourning Dove, 50; Ground Dove, 10; Horned Owl, 2; Belted Kingfisher, 28; Yellow-shafted Flicker, 64; Pileated Woodpecker, 5; Red-bellied Woodpecker, 32; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 17; Hairy Woodpecker, 4; Downy Woodpecker, 12; Red-cockaded Woodpecker, 7; Eastern Phoebe, 69; Vermilion Flycatcher, 3 (includes 1 ad. ♂; seen at Lake Jackson where they winter regularly—W.C.); Tree Swallow, 160; Blue Jay, 77; Am. Crow, 42; Fish Crow, 3; Carolina Chickadee, 23; Tufted Titmouse, 11; White-breasted Nuthatch, 3; Brown-headed Nuthatch, 6; Brown Creeper, 3; House Wren, 40; Winter Wren, 1; Carolina Wren, 73; Long-billed Marsh Wren, 3; Short-billed Marsh Wren, 3; Mockingbird, 57; Brown Thrasher, 32; Robin, 13; Hermit Thrush, 38; Eastern Bluebird, 64; Blue-gray Gnatcatcher, 25; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 148; Am. Pipit, 115; Loggerhead Shrike, 10; Starling, 300; White-eyed Vireo, 3; Solitary Vireo, 6; Black and White Warbler, 8; Orange-crowned Warbler, 12; Nashville Warbler, 1 (bright yellow underparts, gray head, white eye-ring, and small size observed with 6X glasses at close range—W.C.; also seen by 3 other competent observers Dec. 22 to Jan. 2); Myrtle Warbler, 170; Yellow-throated Warbler, 4; Pine Warbler, 33; Palm Warbler (2 subspp.), 106; Yellow-throat, 67; English Sparrow, 130; Eastern Meadowlark, 140; Red-wing, 350; Baltimore Oriole, 1 (ad. ♂ seen repeatedly at feeding station in December by Mrs. Goulding; another ad. ♂ collected on Jan. 2); Rusty Blackbird, 1; Purple Grackle, 175; Brown-headed Cowbird, 5; Cardinal, 136; Am. Goldfinch, 86; Eastern Towhee, 74; Savannah Sparrow, 12; Grasshopper Sparrow, 2 (H.S., B.L.); Vesper Sparrow, 35; Pine-woods Sparrow, 6; Chipping Sparrow, 27; Field Sparrow, 18; White-crowned Sparrow, 1 (imm. size of White-throat but appearing more alert; pink bill, no white on head or throat—W.C.; 2 imm. seen at same place by W.C. and H.S., Dec. 21); White-throated Sparrow, 230; Fox Sparrow, 1 (H.S.); Swamp Sparrow, 55; Song Sparrow, 76. **Total,** 113 species (1 additional subspecies); about 11,256 individuals. (Seen in area recently: Dec. 19, Common Loon, Redhead, Barred Owl, Catbird, Black-capped Warbler [3rd early-winter record; all identification marks checked—W.C.], Oriole [♀ with light belly, probably Bullock's or a hybrid—W.C.]; Dec. 31, Cedar Waxwing; Jan. 2, Little Blue Heron.)—William Cross, Mrs. R. L. Goulding, Barbara Lias, William and Janet Randel, Henry M. Stevenson, Richard West.

184. Ashland, Ohio (Charles Mill Dam area only 75% of regular area covered this year; de-

ciduous woods 40%, waste fields 25%, roadsides 15%, marsh and bushy swamps 15%, pine plantings 5%).—Jan. 1; 8 a.m. to 5 p.m. Cloudy, light drizzle in a.m., occasional sunshine in p.m.; temp. 42° to 50°; wind S, 0-5 m.p.h.; ground bare, unfrozen; lake unfrozen except for thin ice in sheltered places. Thirteen observers in 3 parties. Total hours, 19 (on foot); total miles, 20 (on foot). Mallard, 2; Black Duck, 7; Am. Merganser, 18; Red-tailed Hawk, 2; Bald Eagle, 1; Bob-white, 20; Ring-necked Pheasant, 2; Herring Gull (?), 2; Mourning Dove, 1; Pileated Woodpecker, 1; Red-bellied Woodpecker, 8; Hairy Woodpecker, 4; Downy Woodpecker, 18; Blue Jay, 9; Black-capped Chickadee, 25; Tufted Titmouse, 21; White-breasted Nuthatch, 21; Brown Creeper, 5; Winter Wren, 1; Carolina Wren, 2; Robin, 129 (50 est., 79); Eastern Bluebird, 16; Cedar Waxwing, 28; Starling, 2; English Sparrow, 68; Rusty Blackbird, 3; Cardinal, 34; Am. Goldfinch, 71; Slate-colored Junco, 52; Tree Sparrow, 512 (400 est., 112); Swamp Sparrow, 1; Song Sparrow, 61. **Total,** 32 species; about 1147 individuals.—S. M. Martin, Edson Grindle, Robert Arnold, Charles Ross, Garry Bolen, Robert Bell, David Whitcomb, Carl Keiffer, James Garrison, Roger Stude, Vallee Shenberger, Curtis Thompson, Burton C. Kahl (Ashland Naturalists Society).

185. Ashtabula, Ohio (Lake Erie shore from west of Ashtabula to Conneaut [14 miles] and most of lake plain, from shore inland 4 miles; open farmland 50%, swamp forest beech-maple woodlands with much hemlock and some white pine 25%, abandoned fields with aspen-sumac-thornapple thicket 20%, river gorges, swamps, ponds, and bottomlands 5%).—Dec. 30; 7 a.m. to 6 p.m. Mostly clear but some haze; temp. 21° to 29°; wind S, 5-15 m.p.h.; ground bare except for remains of drifts in ditches and on north-facing banks; previous snows rained off 4 days previously; all water open except stagnant pools frozen the preceding night. Four observers, mostly in 2 parparties. Total party-hours, 25 (20 on foot, 5 in auto); total miles, 122 (32 on foot, 90 by auto). Common Loon, 1; Horned Grebe, 2; Double-crested Cormorant, 3; Mallard, 16; Black Duck, 115; Green-winged Teal, 1; Wood Duck, 2; Redhead, 1; Ring-necked Duck, 4; Canvas-back, 11; Lesser Scaup Duck, 47; Am. Golden-eye, 240; Buffle-head, 35; Ruddy Duck, 1; Hooded Merganser, 6; Am. Merganser, 667; Red-breasted Merganser, 6; Red-tailed Hawk, 1; Bald Eagle, 1; Sparrow Hawk, 2; Ruffed Grouse, 2; Great Black-backed Gull, 1; Herring Gull, 1160; Ring-billed Gull, 15; Franklin's Gull, 6 (1st northeastern Ohio winter record); Bonaparte's Gull, 1022; Screech Owl, 1; Horned Owl, 1; Snowy Owl, 6; Barred Owl, 1; Belted Kingfisher, 3; Pileated Woodpecker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 13; Horned Lark (Prairie), 2; Blue Jay, 1; Am. Crow, 4; Black-capped Chickadee, 29; Tufted Titmouse, 3; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 2; Brown Creeper, 1; Robin, 1; Golden-crowned Kinglet, 1; Cedar Waxwing, 40; Starling, 260; English Sparrow, 235; Cardinal, 11; Slate-colored Junco, 32; Tree Sparrow, 81; Song Sparrow, 2; Snow Bunting, 6. **Total,** 52 species; 4113 individuals. Also seen on west border of area on Dec. 31; Cooper's Hawk, 1; Snowy Owl, 3; Yellow-shafted Flicker, 1; Eastern Meadowlark, 3; Horned Lark, 60; Northern Shrike, 2 (one coll.).—Lawrence E. Hicks, William Davis, Henry Schuer, A. H. Claugus.

186. Brecksville, Ohio (center point U.S. Route 82 and Cuyahoga River; deciduous woodland 50%, open farmland 20%, open fields 25%, town suburbs 5%).—Dec. 31; 8 a.m. to 5 p.m. Overcast but bright; temp. 32° to 48° to 44°; ground thawed, river and canal open. Seven observers in 4 parties. Total hours, 30½; total miles, 223 (190 by car, 33 on foot). Great Blue Heron, 1; Mallard, 7; Black Duck, 15; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 5; Sparrow Hawk, 3; Ruffed Grouse, 1; Ring-necked Pheasant, 3; Ring-billed Gull, 1; Mourning Dove, 11; Screech Owl, 1; Barred Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 1; Hairy Woodpecker, 12; Downy Woodpecker, 41; Blue Jay, 14; Am. Crow, 4; Black-capped Chickadee, 167; Tufted Titmouse, 40; White-breasted Nuthatch, 42; Brown Creeper, 10; Winter Wren, 2; Carolina Wren, 3; Golden-crowned Kinglet, 62; Starling, 225; English Sparrow, 256; Cardinal, 55; Purple Finch, 11; Am. Goldfinch, 102; Eastern Towhee, 1; Slate-colored Junco, 107; Tree Sparrow, 118; White-throated Sparrow, 2; Song Sparrow, 36. **Total,** 36 species; 1366 individuals.—Don Eckelberry, Mr. and Mrs. Merit Skaggs, R. W. Hill, Jerry Piscak, Raymond Smiley, Richard P. Klein.

187. Buckeye Lake, Ohio (about the same area as in past 25 years; deciduous woodlands 60%, open farmland 30%, brushy swamp and cattail marsh 10%).—Dec. 28; 7:15 a.m. to 5:15 p.m. Clear; temp. 31° to 47°; wind W, less than 10 m.p.h.; ground bare; thin ice on small puddles, no ice on lake or streams. Fourteen observers in 4 parties. Total miles, 205 (84 on foot, 121 by auto). Horned Grebe, 1; Pied-billed Grebe, 3; Great Blue Heron, 1; Blue Goose, 3 (1 a well-marked Blue Goose x Snow Goose hybrid); Mallard, 387 (±50); Black Duck, 1117 (±200); Gadwall, 1; Baldpate, 51; Pintail, 23; Green-winged Teal, 5; Blue-winged Teal, 1; Shoveller, 7; Ring-necked Duck, 3; Lesser Scaup Duck, 28; Am. Golden-eye, 23; Buffle-head, 9; Ruddy Duck, 6; Hooded Merganser, 24; Am. Merganser, 33; Turkey Vulture, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 5; Red-tailed Hawk, 7; Red-shouldered Hawk, 6; Rough-legged Hawk, 1; Bald Eagle, 2; Marsh Hawk, 6; Sparrow Hawk, 12; Bob-white, 108 (9 coveys); Ring-necked Pheasant, 9; Am. Coot, 11; Killdeer, 12; Red-backed Sandpiper, 1; Herring Gull, 3; Ring-billed Gull, 2; Mourning Dove, 163; Screech Owl, 2; Barred Owl, 3; Belted Kingfisher, 7; Yellow-shafted Flicker, 101; Pileated Woodpecker, 2; Red-bellied Woodpecker, 40; Red-headed Woodpecker, 75; Hairy Wood-

pecker, 7; Downy Woodpecker, 140; Horned Lark, 239; Blue Jay, 95; Am. Crow, 78; Carolina Chickadee, 248; Tufted Titmouse, 170; White-breasted Nuthatch, 81; Red-breasted Nuthatch, 17; Brown Creeper, 41; Winter Wren, 3; Carolina Wren, 26; Long-billed Marsh Wren, 1; Mockingbird, 2; Robin, 117; Eastern Bluebird, 60; Golden-crowned Kinglet, 31; Cedar Waxwing, 11; Loggerhead Shrike, 1; Starling, 4498 (est.); Myrtle Warbler, 2; Palm Warbler (Western), 1; English Sparrow, 1506; Eastern Meadowlark, 78; Red-wing, 344; Rusty Blackbird, 42; Purple Grackle, 1; Brown-headed Cowbird, 21; Cardinal, 313; Purple Finch, 4; Pine Siskin, 2; Am. Goldfinch, 99; Eastern Towhee, 11; Slate-colored Junco, 187; Tree Sparrow, 329; Field Sparrow, 2; White-throated Sparrow, 1; Fox Sparrow, 2; Swamp Sparrow, 11; Song Sparrow, 364. **Total,** 83 species; about 11,492 individuals.—Arthur Borror, Donald J. Borror, Floyd B. Chapman, Audrey H. Claugus, Lawrence E. Hicks, James Jenkins, Arthur S. Kiefer, Ernest O. Limes, Irvin B. Rickly, Henry Schuer, Donald M. Smith, Paul Stewart, Milton B. Trautman, Walter A. Tucker.

188. Bucyrus, Ohio (Kuehnle and Rexroth farms southeast of city to bridge 4 miles southeast on Mt. Vernon Rd.; open woods 20%, dense woods 30%, bottomland 40%, farmland 10%).—Dec. 27; dawn to dusk. Overcast early in a.m., showers late in a.m., sunny in p.m.; temp. 48° to 33°; wind SSW shifting to W, 30 m.p.h.; ground bare; no ice on ponds and streams. Two observers, working singly. Total hours, 16 (14 on foot, 2 in car); total miles, 45 (12 on foot, 33 in car). Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 1; Bob-white, 15; Ring-necked Pheasant, 1; Mourning Dove, 22; Screech Owl, 1; Yellow-shafted Flicker, 2; Red-bellied Woodpecker, 6; Red-headed Woodpecker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 11; Horned Lark, 11; Blue Jay, 13; Am. Crow, 1; Black-capped Chickadee, 7 (subsequently rechecked for positive identification); Tufted Titmouse, 32; White-breasted Nuthatch, 21; Brown Creeper, 4; Carolina Wren, 1; Ruby-crowned Kinglet, 1 [no details—Ed.]; Starling, 28; English Sparrow, 320; Cardinal, 69; Am. Goldfinch, 6; Slate-colored Junco, 15; Tree Sparrow, 33; Song Sparrow, 14. **Total,** 30 species; 647 individuals. (Dec. 30, flock of 100 Robins, 70 counted, 30 estimated, flying northward alighted in Kuehnle orchard.)—Chas. H. Kuehnle, Paul F. Kuehnle.

189. Cadiz, Ohio (same general area as in past 49 years, fields and woods surrounding Cadiz; open country 25%, deciduous woods 10%, fields and meadows 20%, brushy thickets 25%, roadsides 10%, Piedmont Lake area 10%).—Dec. 26; 8 a.m. to 12:15 p.m., 1:15 to 4:15 p.m. Heavy overcast, frequent light showers, very misty over lake; temp. 40° to 55°; wind 5-10 m.p.h.; ground bare; season to date quite open. Six observers together. Total hours, 42 (15 by car, 27 on foot); total miles, 85 (44 on foot, 41 by car). Mallard, 48; Black Duck, 54; Am. Merganser, 1; Red-tailed Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 2; Herring Gull, 2; Yellow-shafted Flicker, 2; Pileated Woodpecker, 1; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 1; Downy Woodpecker, 5; Am. Crow, 7; Carolina Chickadee, 7; Tufted Titmouse, 3; White-breasted Nuthatch, 2; Carolina Wren, 3; Mockingbird, 1; Robin, 67; Eastern Bluebird, 2; Starling, 150; Myrtle Warbler, 3 (1st record for count in 49 years); English Sparrow, 96; Brown-headed Cowbird, 10; Cardinal, 15; Am. Goldfinch, 5; Slate-colored Junco, 7; Tree Sparrow, 34; Song Sparrow, 7. **Total,** 29 species; 539 individuals. (Eastern Meadowlark, Horned Lark, Brown Creeper, Mourning Dove, and Blue Jay seen by John G. Worley and David Worley within 4 days of count.)—Harry B. McConnell and John G. Worley (taking 39th annual count together), David E. Worley, Clara C. Worley, John McArthur, James Crowl.

190. Canton, Ohio (area 15 miles in diameter with Canton as center; parks and suburbs 30%, woodlots 25%, open farmland 30%, pastureland 15%).—Jan. 2; [starting and stopping time not indicated—Ed.]. Cloudy, foggy, or drizzly weather; temp. 50°; no wind. Fourteen observers in 10 parties. Total hours, 24 (20 on foot, 4 by car); total miles, 41 (30 on foot, 11 by car). Black Duck, 1; Red-shouldered Hawk, 2; Bob-white, 1; Yellow-shafted Flicker, 3; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 3; Downy Woodpecker, 21; Blue Jay, 7; Am. Crow, 4; Black-capped Chickadee, 53 (verified by measurements of a series of banded birds; Carolina Chickadee occurs regularly a few miles farther south, but has been detected only 8 times at Canton); Tufted Titmouse, 11; White-breasted Nuthatch, 14; Robin, 1; Starling, 126; English Sparrow, 747; Cardinal, 49; Am. Goldfinch, 6; Eastern Towhee, 1 (J.D. saw at close range); Slate-colored Junco, 81; Tree Sparrow, 269; Field Sparrow, 3 (C.L.R.); White-throated Sparrow, 2 (seen with Tree Sparrows very close—E.A.) Song Sparrow, 43. **Total,** 24 species; 1450 individuals.—Eleanor Anderson, Robert Ball, J. G. Bier, Howard Braun, Don Collins, Mr. and Mrs. John Danner, Mr. and Mrs. J. L. Floyd, Grover Keplinger, George Nieport, C. L. Riley, Mr. and Mrs. D. R. Pratt (Neo Naturalists).

191. Cincinnati, Ohio (southeastern corner of Hamilton Co. and southwestern corner of Clermont Co.; woods and fields in both counties, confluence of Little Miami and Ohio rivers, Remington gravel pits, Ohio River below Twelve Mile Creek; open farmland 30%, deciduous thickets 25%, deciduous woods 20%, coniferous woodland 5%, river banks 18%, ponds 2%).—Dec. 26; dawn to dusk. Cloudy and almost constant rain (.45 inches); temp. 50° to 53° to 49°; wind SE, 1-7 m.p.h.; rivers slightly swollen. Thirty-four observers in 5 parties. Total hours, 53 (40 on foot, 3 in canoe, 10 in car); total miles, 180 (44 on foot, 6 by canoe, 130 by car). Pied-billed Grebe, 1; Mallard, 83; Black Duck, 107; Baldpate, 2; Pintail, 1; Green-winged Teal, 1; Ring-

Harry B. McConnell, who has participated in 49 Counts at Cadiz, Ohio, and John G. Worley, who has accompanied him on 39 trips.

necked Duck, 3; Canvas-back, 8; Lesser Scaup Duck, 3; Am. Golden-eye, 2; Hooded Merganser, 7; Am. Merganser, 13; Goshawk, 1; Sharp-shinned Hawk, 2; Cooper's Hawk, 4; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Rough-legged Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 13; Bob-white, 65 (5 coveys); Am. Coot, 8; Killdeer, 2; Herring Gull, 1; Mourning Dove, 535; Barn Owl, 3; Barred Owl, 2; Long-eared Owl, 4; Short-eared Owl, 3; Belted Kingfisher, 10; Yellow-shafted Flicker, 100; Red-bellied Woodpecker, 46; Red-headed Woodpecker, 32; Yellow-bellied Sapsucker, 21; Hairy Woodpecker, 6; Downy Woodpecker, 162; Horned Lark, 8; Blue Jay, 130; Am. Crow, 2228 (2000 est., 228); Carolina Chickadee, 309; Tufted Titmouse, 186; White-breasted Nuthatch, 14; Red-breasted Nuthatch, 4; Brown Creeper, 29; Carolina Wren, 193; Mockingbird, 15; Robin, 657; Eastern Bluebird, 121; Golden-crowned Kinglet, 12; Cedar Waxwing, 34; Starling, 1007; Myrtle Warbler, 76; Palm Warbler, 1; English Sparrow, 788; Eastern Meadowlark, 39; Red-wing, 151; Rusty Backbird, 302; Brown-headed Cowbird, 3; Cardinal, 642; Purple Finch, 6; Am. Goldfinch, 349; Eastern Towhee, 180; Slate-colored Junco, 538; Tree Sparrow, 273; Field Sparrow, 5; White-crowned Sparrow, 54; White-throated Sparrow, 124; Fox Sparrow, 2; Song Sparrow, 426. **Total,** 69 species; about 10,164 individuals. (Seen in area Dec. 30: Ruby-crowned Kinglet, 2; Redhead, 2.)—G. R. Austing, M. L. Bagel, W. Benway, W. Bergmann, E. Braunecker, E. Brockschlager, J. R. Bunnell, R. Bury, V. Coles, H. Field, W. W. Goodpaster, F. Harbaum, W. Harbaum, P. X. Hellmann, E. Kemsies, K. H. Maslowski, L. McIntyre, W. H. Mers, Dean F. R. Neuffer, W. Randle, H. Roach, N. I. Sjodahl, S. E. Sjodahl, V. C. Sloane, A. Stephenson, B. Stephenson, H. Stephenson, G. Symons, Rev. C. J. Taylor, T. Thompson, R. E. Vaupel, N. Whitney, E. H. Williams, J. Zimmerman.

192. Cleveland, Ohio (Gordon Park eastward to mouth of Chagrin River along Lake Erie shore; inland to Shaker Lakes, Gates Mills, North Chagrin reservation, and Willoughby; lake shore 15%, beech-maple climax forest 20%, open field 25%, city suburbs 20%, thickets 15%, swamps 5%).—Dec. 26; 8 a.m. to dusk. Overcast; temp. 42° to 51°; heavy rain from 11 a.m. slackening to a mist by 4 p.m.; wind S to SE, 28 m.p.h. in a.m. to 9 m.p.h. by late p.m. Twenty-five observers in 13 parties. Total hours, 88 (54 on foot, 34 by car); total miles, 387 (65 on foot, 322 by car). Horned Grebe, 7; Gannet, 1; Double-crested Cormorant, 2; Great Blue Heron, 1; Mallard, 91; Black Duck, 188; Baldpate, 2; Canvas-back, 1; Lesser Scaup Duck, 450 (est.); Am. Golden-eye, 5; Buffle-head, 2; Old-squaw, 1; White-winged Scoter, 1; Am. Merganser, 6; Red-breasted Merganser, 21; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 2; Red-shouldered Hawk, 4; Rough-legged Hawk, 2, Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 75 (5 coveys); Ring-necked Pheasant, 1; Am. Coot, 2; Herring Gull, 1183 (1000 est., 183); Ring-billed Gull, 641 (500 est., 141); Bonaparte's Gull, 885 (600 est., 285); Mourning Dove, 3; Horned Owl, 2; Snowy Owl, 1; Barred Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 2; Pileated Woodpecker, 3; Hairy Woodpecker, 11; Downy Woodpecker, 41; Blue Jay, 72; Am. Crow, 5; Black-capped Chickadee,

93; Tufted Titmouse, 40; White-breasted Nuthatch, 40; Red-breasted Nuthatch, 4; Brown Creeper, 7; Brown Thrasher, 1; Robin, 27; Golden-crowned Kinglet, 8; Cedar Waxwing, 189; Starling, 279; English Sparrow, 383; Cardinal, 80; Purple Finch, 3; Pine Siskin, 30; Am. Goldfinch, 14; Slate-colored Junco, 230; Tree Sparrow, 61; White-throated Sparrow, 1; Song Sparrow, 18. **Total,** 58 species; about 5231 individuals.—James Akers, Tom Armour, L. P. Barbour, Vera Carrothers, Ben S. Daniels, Maude Doolittle, C. T. Downer, Elsie Erickson, James Findley, Adela Gaede, Carl F. Hamann, Urban Hengesbach, R. W. Hill, Charles Knight, Howard Martin, Ronald Marvin, Margaret Perner, Jerry Piskac, Bryant Sherwin, Margaret Sherwin, Raymond Smiley, Paul Smith, Robert Smith, Faith Swanson, Clark Tefft (Kirtland Bird Club).

193. Dayton, Ohio (nearly same areas as in past 20 years, within 7½-mile radius of Triangle Park; woods and brush 22%, open fields 14%, stream banks and ditches 14%, country roads 30%, wooded residential 20%).—Dec. 26. Daylight to dark; rain all day, 1.6 in.; temp. 43° to 49°; wind SE, 10.2 m.p.h.; ground bare, muddy; small streams rising. Thirty-two observers, 3 singly, others in 9 groups. Total party-hours, 75; total party-miles, 231 (53 on foot, 178 by car). Great Blue Heron, 1; Mallard, 44; Black Duck, 20; Wood Duck, 1 (C.O.H.); Am. Golden-eye, 4; Cooper's Hawk, 3; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Sparrow Hawk, 10; Bob-white, 104; Ring-necked Pheasant, 21; Killdeer, 15; Herring Gull, 1; Mourning Dove, 409; Barn Owl, 1; Screech Owl, 3; Barred Owl, 1; Long-eared Owl, 10 (H.L., L.B., J.B., C.B.); Belted Kingfisher, 6; Yellow-shafted Flicker, 50; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 4; Hairy Woodpecker, 13; Downy Woodpecker, 104; Horned Lark, 91; Blue Jay, 75; Am. Crow, 369; Black-capped Chickadee, 18 (C.O.H.); Carolina Chickadee, 164; Tufted Titmouse, 112; White-breasted Nuthatch, 15; Red-breasted Nuthatch, 2; Brown Creeper, 18; House Wren, 3 (H.L.—2nd winter record [no substantiating details—Ed.]); Winter Wren, 1; Carolina Wren, 20; Mockingbird, 5; Robin, 26; Eastern Bluebird, 6; Golden-crowned Kinglet, 13; Ruby-crowned Kinglet, 8 (frequent this winter); Am. Pipit, 25 (J.B., L.B.); Starling, 277; Myrtle Warbler, 14; Pine Warbler, 1 (Mrs. D.L.S. observed at close range for several days, all plumage characters carefully noted); Yellow-throat, 2 (H.L.—in dry marsh area); English Sparrow, 382; Red-wing, 13; Brown-headed Cowbird, 1; Cardinal, 434; Purple Finch, 61; Am. Goldfinch, 31; Eastern Towhee, 26; Slate-colored Junco, 322; Tree Sparrow, 348; Harris's Sparrow, 1 (C.O.H.—2nd winter record); Song Sparrow, 232. **Total,** 57 species; 3945 individuals. (Seen during week in area: Black-crowned Night Heron, Short-eared Owl, Bewick's Wren, Field Sparrow.)—Glen Smith, Bert H. Smith, Phil Greene, Don Lee, Harold Walter, Galen Lenhert, Joe Blincoe, Louis Blincoe, Paul Knoop, Carl Hess, C. O. Horst, Jack Lambert, Shirley Kramer, Charles Breish, Frank Laken, Jack Jensen, Richard Boyer, Dorothea Eikenbary, Ann Tuhey, Eva Ruhl, Helen Kirk, Catherine Hadeler, Norman Bright, Helen Lohmeier, H. S. Savely, Mrs. Don Wallace, Mr. and Mrs. D. L. Sollenberger, Kenneth Myers, Roger Bell, Edith S. Blincoe, Ben J. Blincoe (Dayton Audubon Society).

194. Delaware, Ohio (from Delaware north along Olentangy River and Whetstone Creek to Marion County line, east to Ashley, south along West Branch and Alum Creek to end of Hogback Road, west to Delaware; open farmland 35%, deciduous woods 25%, stream banks and bottomlands 20%, roadsides and hedges 20%).—Dec. 29; 8:15 a.m. to 5 p.m. Clear; temp. 37° to 45° to 42°; wind NNE, less than 1 m.p.h. in a.m. to 8-12 m.p.h. in p.m.; ground bare and thawing; all water open. Thirteen observers in 5 parties. Total hours, 43½ (43 on foot, ½ by car); total miles, 49 (41 on foot, 8 by car). Black Duck, 4; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 2; Rough-legged Hawk, 1; Marsh Hawk, 4; Pigeon Hawk, 1 (observed flying in good light, 1 observed under excellent conditions just south of area the following day—W.D.S.); Bob-white, 82 (50 est., 32); Ring-necked Pheasant, 24; Woodcock, 1 (flushed from river-bottom thicket—G.W.C.); Mourning Dove, 82; Belted Kingfisher, 4; Yellow-shafted Flicker, 4; Red-bellied Woodpecker, 9; Hairy Woodpecker, 8; Downy Woodpecker, 65; Horned Lark, 63; Blue Jay, 60; Am. Crow, 52; Carolina Chickadee, 89; Tufted Titmouse, 106; White-breasted Nuthatch, 75; Red-breasted Nuthatch, 4; Brown Creeper, 23; Carolina Wren, 8; Eastern Bluebird, 6; Golden-crowned Kinglet, 2; Starling, 170; English Sparrow, 960 (390 est., 570); Purple Grackle, 4; Cardinal, 115; Purple Finch, 2; Am. Goldfinch, 122; Slate-colored Junco, 120; Tree Sparrow, 139 (35 est., 104); Field Sparrow, 18; Swamp Sparrow, 2; Song Sparrow, 180. **Total,** 38 species; about 2616 individuals.—G. W. Cox, G. H. Crowl, P. B. Dunham, T. C. Dunham, B. A. Foote, J. L. Goble, S. L. Hipsher, R. L. Hunter, J. H. Lancaster, J. L. Shover, W. D. Stull, D. A. Suthers, R. A. Suthers.

195. Hamilton, Ohio (same area as in previous years. Edge of city to Miami River, to Symnes Creek and return; open farmland 40%, wood patches 40%, weedy fields 20%).—Dec. 24; 8:30 a.m. to 4:30 p.m. Clear; temp. 20° at start, 36° at return; visibility good; wind light S, ground bare. Observers together. Total miles, 23 (8 on foot, 15 by car), Great Blue Heron, 1; Black-crowned Night Heron, 1; Cooper's Hawk, 1; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 7; Bob-white, 9; Killdeer, 5; Mourning Dove, 94; Belted Kingfisher, 3; Yellow-shafted Flicker, 15; Downy Woodpecker, 23; Red-headed Woodpecker, 1; Horned Lark, 2; Blue Jay, 13; Am. Crow, 32; Chickadee (sp.), 24; Tufted Titmouse, 22; White-breasted Nuthatch, 1; Brown Creeper, 12; Carolina Wren, 6; Mockingbird, 1; Eastern Bluebird, 6; Golden-crowned Kinglet, 1; Starling, 2900 (est.); Myrtle Warbler, 1; English

Sparrow, 321; Eastern Meadowlark, 1; Cardinal, 48; Am. Goldfinch, 7; Slate-colored Junco, 47; Tree Sparrow, 64; Song Sparrow, 42. **Total,** 33 species; about 3713 individuals.—Frank Harbaum, Will Harbaum.

196. Lakewood, Ohio (along Lake Erie from Edgewater Park to mouth of Rocky River; an open field in Lakewood; Rocky River Metropolitan Park from Lorain Bridge to mouth of river; area does not cover an area of 15-mile diameter; lake front and city park on lake front 60%, open lot in urban area 6%, Rocky River Valley—a flood-plain forest 34%).—Jan. 2; 8 a.m. to 5 p.m. Completely overcast for almost entire time, no precipitation, rain the night before; temp. 51° to 56° to 54°; wind S, 1-7 m.p.h.; ground muddy and without snow; all water open. Three observers in 1 party. Total hours, 9 (8 on foot, 1 by bus); total miles, slightly less than 10 (all on foot). Horned Grebe, 1; Black Duck, 13; Canvas-back, 1; Lesser Scaup Duck, 815 (800 est., 15); Am. Golden-eye, 134; Merganser (sp.), 2; Cooper's Hawk, 2; Sparrow Hawk, 1; Ring-necked Pheasant, 3; Herring Gull, 74; Ring-billed Gull, 9; Bonaparte's Gull, 163; Rock Dove, 74 (roost in wild; foraging for food with Starlings, English Sparrows, etc.); Snowy Owl, 2; Belted Kingfisher, 1; Downy Woodpecker, 11; Horned Lark, 1; Blue Jay, 47; Am. Crow, 4; Black-capped Chickadee, 10; Tufted Titmouse, 9; White-breasted Nuthatch, 7; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 1 (seen at about 10 ft. in low bushes; eye-ring evident; had neither black stripes nor color on crown—M.O.D.); Cedar Waxwing, 73 (1 flock, eating haws in open city lot); Starling, 80; English Sparrow, 63; Cardinal, 29; Am. Goldfinch, 1; Slate-colored Junco, 42; Field Sparrow, 2 (seen at close range; pink bill and reddish cap evident; no spot on breast—M.O.D.); Song Sparrow, 4. **Total,** 32 species; about 1683 individuals. (Seen in same area Dec. 25 to Jan. 1: Great Blue Heron, 1; Buffle-head, 14; Ruddy Duck, 12; Red-breasted Merganser, 3; Yellow-shafted Flicker, 1; Tree Sparrow, 2.)—Florence M. Gray, Mrs. Owen J. Davies, Myron Owen Davies (The Cleveland Bird Club).

197. Lancaster, Ohio (within 5 miles of Lancaster, approximately same route as previous 25 years; stream banks 18%, deciduous woods 61%, farmland 21%).—Jan. 1; 8:15 a.m. to 4 p.m. Overcast; light rain in a.m.; temp. 44° to 50° to 46°; wind SW to W, 1-7 m.p.h.; ground not frozen; ponds and streams open. Ten observers in 4 parties. Total hours, 55; total miles, 56 (on foot). Sparrow Hawk, 2; Bob-white, 31 (2 coveys); Ring-necked Pheasant, 1; Mourning Dove, 5; Screech Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 7; Red-bellied Woodpecker, 8; Hairy Woodpecker, 5; Downy Woodpecker, 39; Blue Jay, 32; Am. Crow, 5; Carolina Chickadee, 82; Tufted Titmouse, 52; White-breasted Nuthatch, 30; Brown Creeper, 22, Winter Wren, 2; Carolina Wren, 14; Robin, 11; Eastern Bluebird, 11; Golden-crowned Kinglet, 3· Starling, 141; English Sparrow, 195; Cardinal, 125; Am. Goldfinch, 12; Eastern Towhee, 13; Slate-colored Junco, 155; Tree Sparrow, 112; Song Sparrow, 49. **Total,** 29 species; 1168 individuals.—Doris Beesley, Florence Branum, Chas. H. Shaw, Louis Kitz, Jerome N. Miller, Edgar Work, Jr., James L. Goslin, Jack Hunter, Keith Brengman, Chas. R. Goslin.

198. Mohican State Forest, Ohio (Ashland and Richland counties; from south boundary of park north along Mohican River through forest 8 miles to headwaters of Pleasant Hill Reservoir; chiefly along 300-ft. high river bluffs covered with pine-hemlock-hardwood forests; deciduous upland forest, deciduous lowland forest, brushy fields, 850-acre reservoir above Pleasant Hill dam).—Jan. 2; 8:30 a.m. to 5 p.m. Cloudy; temp. 48° to 55°; wind gentle, SE; no snow or ice; fog and mist but no measurable precipitation. Birds unusually quiet due to weather conditions. Three observers in 2 parties. Total miles, 58 (45 by car, 13 on foot). Mallard, 24; Black Duck, 410; Gadwall, 3; Am. Golden-eye, 7; Hooded Merganser, 2; Am. Merganser, 22; Red-tailed Hawk, 2 (ad.); Cooper's Hawk, 2; Bald Eagle, 3 (2 imm.), 1 ad., fishing along wooded west shore of reservoir); Bob-white, 6; Mourning Dove, 1; Barred Owl, 1; Belted Kingfisher, 9; Horned Lark, 3; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 6; Hairy Woodpecker, 8; Downy Woodpecker, 13; Pileated Woodpecker, 8; Blue Jay, 19; Am. Crow, 3; Carolina Chickadee, 46; Tufted Titmouse, 25; Brown Creeper, 8; White-breasted Nuthatch, 20; Red-breasted Nuthatch, 7; Carolina Wren, 10; Robin, 5500 (est. at roost in young pine plantation); Eastern Bluebird, 9; Golden-crowned Kinglet, 22; Cedar Waxwing, 11; English Sparrow, 91; Starling, 8000 (est. at or near roost); Red-wing, 125; Rusty Blackbird, 52; Brown-headed Cowbird, 400 (est., 1 flock); Purple Grackle, 3; Cardinal, 21; Purple Finch, 14; Evening Grosbeak, 66 (eating ash seeds in mixed evergreen deciduous forest); Am. Goldfinch, 71; Slate-colored Junco, 48; Tree Sparrow, 18; Field Sparrow, 1; Song Sparrow, 10. **Total,** 45 species; about 15,145 individuals. Mrs. C. R. Wagner recorded a Golden Eagle in this area, Dec. 28.—Mr. and Mrs. Paul A. Stewart, James A. Bruce.

199. Oxford, Ohio (approximately same area as in previous years; creek and brook margins 45%, mature woodland 20%, open fields 15%, roadsides 10%, campus and urban areas 10%).—Dec. 24; 8 a.m. to 5 p.m. Clear; temp. 17° to 35°; wind S, slight; ground and ponds frozen; streams open. Thirteen observers in 3 parties. Total party-hours, 23; total party-miles, 20. Cooper's Hawk, 2; Red-tailed Hawk, 4; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 3; Bob-white, 18 (2 coveys); Killdeer, 2; Mourning Dove, 86; Barred Owl, 2; Belted Kingfisher, 4; Yellow-shafted Flicker, 34; Red-bellied Woodpecker, 52; Red-headed Woodpecker, 38; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 11; Downy Woodpecker, 71; Horned

Lark, 6; Blue Jay, 81; Am. Crow, 77; Carolina Chickadee, 104; Tufted Titmouse, 121; White-breasted Nuthatch, 18; Red-breasted Nuthatch, 5; Brown Creeper, 5; Carolina Wren, 11; Mockingbird, 1; Robin, 4; Eastern Bluebird, 38; Golden-crowned Kinglet, 9; Starling, 249; Myrtle Warbler, 2; English Sparrow, 669; Eastern Meadowlark, 15; Cardinal, 155; Purple Finch, 7; Am. Goldfinch, 42; Eastern Towhee, 40; Slate-colored Junco, 158; Tree Sparrow, 221; White-crowned Sparrow, 1; White-throated Sparrow, 1; Song Sparrow, 106. **Total,** 42 species; 2476 individuals. (Seen in area same day by persons who did not participate in count: Short-eared Owl, 12 (Harold Brown); Smith's Longspur (Haven H. Spencer [no particulars given—Ed.].)—J. W. Long, R. J. Long, Dr. and Mrs. R. A. Hefner, J. Hefner, D. Weisman, C. Conrad, D. Barr, M. W. Boesel, L. Mettler, W. Gillespie, R. Jackman, G. S. Fichter.

200. Portsmouth, Ohio (same area as last year plus additional waste fields and creek valley worked by new observers; area covered was river banks, deciduous and mixed forest, open fields).—Dec. 26; dawn to dark. Heavy overcast with rain beginning 1 hour after start and intermittent showers thereafter; fog becoming very heavy in middle of afternoon made observations very difficult; temp. 48° at start, 54° on return. Thirteen observers in 3 groups. Total hours, 91; total miles, 204 (145 by auto, 59 on foot). Great Blue Heron, 1; Canada Goose, 7; Mallard, 8; Black Duck, 34; Am. Goldeneye, 3; Cooper's Hawk, 2; Red-tailed Hawk, 3; Red-shouldered Hawk, 1; Sparrow Hawk, 29; Bob-white, 9; Ring-necked Pheasant, 1; Mourning Dove, 97; Barred Owl, 3; Belted Kingfisher, 3; Yellow-shafted Flicker, 38; Red-bellied Woodpecker, 9, Red-headed Woodpecker, 43; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 8; Downy Woodpecker, 26; Blue Jay, 15; Am. Crow, 2500 (est.); Carolina Chickadee, 129; Tufted Titmouse, 23; White-breasted Nuthatch, 4; Brown Creeper, 1; Winter Wren, 4; Carolina Wren, 26; Mockingbird, 4; Robin, 7; Eastern Bluebird, 21; Golden-crowned Kinglet, 3; Cedar Waxwing, 7; Starling, 1000 (est.); Myrtle Warbler, 11; English Sparrow, 55; Red-wing, 30; Rusty Blackbird, 1; Purple Grackle, 45; Cardinal, 201; Purple Finch, 49; Am. Goldfinch, 185; Eastern Towhee, 16; Slate-colored Junco, 179; Tree Sparrow, 36; White-crowned Sparrow, 2; White-throated Sparrow, 3; Swamp Sparrow, 4; Song Sparrow, 57. **Total,** 49 species; about 4945 individuals.—Conrad Roth, George Barry, George Barry, Jr., Earl C. Hayes, Jim Donaldson, Irving H. Weaver, Eva K. Weaver, Floyd B. Chapman, Gusty Hall, Tom Gallaugher, Ray Everman, Fred Kirn, Terry Rife.

201. Salem, Ohio (along Middle Fork of Little Beaver Creek from Salem to Lisbon, Watercress Marsh, around Guilford Lake; open farm and marshland 30%, wooded valley 70%).—Jan. 1; 7:45 a.m. to 5:30 p.m. Overcast with frequent light showers until noon; visibility at start ¾ mile, increasing to 6 miles; temp. 38° to 44°; wind SE, 1-3 m.p.h.; increasing briefly late in p.m. to 8-13 m.p.h.; ground unfrozen, marshes with ⅛-in. ice, lake and streams free of ice. Seven observers in 4 parties. Total hours, 36; total miles, 50 (40 on foot, 10 by car). Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Sparrow Hawk, 4; Ruffed Grouse, 2; Bob-white, 1; Ring-necked Pheasant, 7; Mourning Dove, 46; Screech Owl, 3; Horned Owl, 1; Long-eared Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 11; Pileated Woodpecker, 2; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 10; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 22; Downy Woodpecker, 74; Horned Lark, 1; Blue Jay, 24; Am. Crow, 19; Black-capped Chickadee, 89; Tufted Titmouse, 102; White-breasted Nuthatch, 77; Red-breasted Nuthatch, 8; Brown Creeper, 5; Winter Wren, 5; Carolina Wren, 8; Robin, 38; Golden-crowned Kinglet, 7; Cedar Waxwing, 13; Starling, 201; English Sparrow, 221; Red-wing, 1; Rusty Blackbird, 3; Cardinal, 156; Evening Grosbeak, 11; Am. Goldfinch, 65; Eastern Towhee, 1; Slate-colored Junco, 122; Tree Sparrow, 620; Field Sparrow, 7; Swamp Sparrow, 5; Song Sparrow, 90. **Total,** 45 species; 2098 individuals. (Mockingbird in Salem, Dec. 22—R.O.M.; flock of 100 Pine Siskins along lower Beaver Creek just outside area, Dec. 29—W.C.B.)—Mr. and Mrs. Paul A. Stewart, Mr. and Mrs. Albert T. Hartley, Edward M. Kirk, Raymond O. Marshall, William C. Baker.

202. Steubenville (Jefferson Co.), Ohio (Union Cemetery through Beatty Park to Calvary Cemetery and area south of U.S. 22 to Lover's Lane Road, north side of U.S. 22 to Buena Vista golf course, along Ohio River opposite Brown's Island; from west park picnic grounds of Jefferson State Park down into and through valley to Jefferson Lake, with forays into side valleys, lake area down Town Fork Valley about 2 miles, cross country to Richmond and intersection of Ohio Rt. 43 and county road 45, Ohio 43 to Two Ridge Church; deciduous woods 40%, swamp bottomland 20%, open bottomland 10%, farmland 20%, bushy fields 10%).—Dec. 26; 8:30 a.m. to 4:30 p.m. Rainy; temp. 40° to 52°; wind intermittent, 0-10 m.p.h. Seven observers in 2 parties. Total hours, 16; total miles, 20. Great Blue Heron, 1; Red-tailed Hawk, 1; Screech Owl, 1; Horned Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 2; Red-bellied Woodpecker, 1; Hairy Woodpecker, 3; Downy Woodpecker, 23; Horned Lark, 3; Am. Crow, 5; Carolina Chickadee, 48; Tufted Titmouse, 27; White-breasted Nuthatch, 7; Brown Creeper, 3; House Wren, 1; Carolina Wren, 7; Robin, 15; Eastern Bluebird, 4; Golden-crowned Kinglet, 2; Starling, 250; English Sparrow, 103; Cardinal, 68; Eastern Goldfinch, 33; Henslow's Sparrow, 1; Slate-colored Junco, 84; Tree Sparrow, 112; Field Sparrow, 2; Song Sparrow, 31. **Total,** 29 species; 841 individuals.—Richard Banks, Keith Buchanan, Marjorie Buchanan, Clinton S. Banks, Donald Rarey, Dave Patton, Stan Freedman, Albert Tenney.

203. Sugar Grove, Ohio (same locality as last 5 years; about 850 acres on the unglaciated Appalachian Plateau; Hocking River and Clear Creek bottoms and adjacent uplands; open bottomlands, 42%, mixed upland woodland 19%, hemlock forest 13%, old-field pine scrub 7%, mixed scrub 6%, pine woods 5%, village 5%, country estate 3%).—Dec 26; dawn to dusk. Heavily overcast, rain most of day; temp. 49° to 60°; wind SW, up to 12 m.p.h. in lowlands, 35 m.p.h. in uplands; ground bare. Thirty-two observers in 4 parties, these in turn subdividing. Total hours, 139 (on foot); Total miles, 121 (on foot). Black Duck, 2; Turkey Vulture, 7; Black Vulture, 17; Cooper's Hawk, 1; Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Sparrow Hawk, 3; Ruffed Grouse, 13; Bob-white, 27; Ring-necked Pheasant, 1; Killdeer, 3; Mourning Dove, 84; Belted Kingfisher, 4; Yellow-shafted Flicker, 24; Pileated Woodpecker, 13; Red-bellied Woodpecker, 23; Yellow-bellied Sapsucker, 6; Hairy Woodpecker, 13; Downy Woodpecker, 107; Blue Jay, 9; Am. Crow, 11; Carolina Chickadee, 297; Tufted Titmouse, 176; White-breasted Nuthatch, 23; Red-breasted Nuthatch, 13; Brown Creeper, 52; Winter Wren, 14; Carolina Wren, 67; Long-billed Marsh Wren, 2; Robin, 76; Hermit Thrush, 8; Eastern Bluebird, 100; Golden-crowned Kinglet, 51; Starling, 299; Myrtle Warbler, 16; English Sparrow, 916; Eastern Meadowlark, 35; Red-wing, 2; Rusty Blackbird, 1; Cardinal, 327; Purple Finch, 11; Pine Siskin, 102; Am. Goldfinch, 156; Eastern Towhee, 30; Slate-colored Junco, 703; Tree Sparrow, 325; Field Sparrow, 3; White-throated Sparrow, 2; Song Sparrow, 140. **Total,** 49 species; 4318 individuals.—C. Bateman, A. H. Claugus, Bob Fay, C. R. Goslin, R. M. Goslin, J. C. Harlor, D. Harlor, L. E. Hicks, J. H. Jenkins, S. M. Jepsen, A. S. Kiefer, L. Kitz, E. Limes, J. N. Miller, P. J. Miller, J. Pattison, R. E. Ramey, C. R. Reese, D. Reese, I. B. Rickly, H. W. Schuer, C. H. Shaw, D. M. Smith, P. A. Stewart, E. S. Thomas, J. S. Thomas, E. Tucker, W. A. Tucker, F. M. Whitney, R. H. Wilson, J. N. Wolfe, E. Work (Wheaton Club).

204. Toledo, Ohio (4 miles of Swan Creek valley, 5 miles of Ottawa River valley, isolated forests east of city, edge of Cedar Point marsh, Maumee River, Acme Power House to Bay, all in Ohio; Erie marsh, Mich., the last-mentioned area containing a large flowing mineral spring; open water 10%, cattail marsh 10%, open deciduous forest 80%).—Dec. 26; dawn to dusk. Continuous rain until clearing at 4 p.m.; visibility poor; temp. 40°; wind SW, 10-15 m.p.h.; no snow, thin rotting ice on marshes. Twenty-eight observers in 4 parties. Total hours, 32; total miles, 76 (46 on foot, 30 by auto). Great Blue Heron, 7; Am. Bittern, 2; Canada Goose, 42; Mallard, 655; Black Duck, 261; Baldpate, 10; Pintail, 81; Canvas-back, 300; Lesser Scaup Duck, 101; Am. Golden-eye, 203; Buffle-head, 1; Hooded Merganser, 1; Am. Merganser, 5090; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Bald Eagle, 3; Marsh Hawk, 16; Sparrow Hawk, 1; Bob-white, 5; Ring-necked Pheasant, 215; Am. Coot, 30; Great Black-backed Gull, 17; Herring Gull, 250; Ring-billed Gull, 420; Bonaparte's Gull, 2200; Mourning Dove, 69; Screech Owl, 4; Horned Owl, 2; Snowy Owl, 1 (dead); Barred Owl, 1; Long-eared Owl, 2; Short-eared Owl, 1; Yellow-shafted Flicker, 7; Hairy Woodpecker, 2; Downy Woodpecker, 38; Blue Jay, 54; Am. Crow, 5018; Black-capped Chickadee, 29; Tufted Titmouse, 65; White-breasted Nuthatch, 33; Red-breasted Nuthatch, 1; Brown Creeper, 20; Winter Wren, 2; Carolina Wren, 8; Robin, 22; Eastern Bluebird, 2; Golden-crowned Kinglet, 21; Starling, 199; Yellow-throat, 1 (imm. ♂); English Sparrow, 480; Red-wing, 46; Cardinal, 146; Purple Finch, 48; Pine Siskin, 50; Am. Goldfinch, 27; Slate-colored Junco, 270; Tree Sparrow, 548; Field Sparrow, 11; White-throated Sparrow, 1; Fox Sparrow, 2; Swamp Sparrow, 13; Song Sparrow, 47. **Total,** 64 species; 17,136 individuals.—Lou Klewer, Robert Van Gundy, Seymour Van Gundy, Herbert Berlin, Max Shepherst, Ronald Sabin, Bill Shupe, Bill Peloguin, Laurel Van Camp, James Dehring, Herbert Dehring, Larry Shaffer, Lou Campbell, Jack Brace, Joe Keller, Joe Wernert, Lynn Colwell, Bruce Bailey, Lawrence Hiett, James Nessle, Ernest Weaver, John Weaver, Russell Burget, Joseph Collins, Robert Montgomery, Thomas Brindley, John Stophlet, Harold Mayfield (Toledo Naturalists Association).

205. Utica, Ohio (South Lane Farm of 345 acres upland 2 miles west of village; Route 62 southwest by car 6½ miles, Route 13 south and side road east 8 miles by car to lowland; beech-maple climax forest 50%, open farmland 40%, brushy thickets 2%, lowland, 8%).—Jan. 1; 8 a.m. to 4:30 p.m. Cloudy, occasional drizzle; temp. 42° to 51°; wind S to SW, 4-10 m.p.h. Six observers in 2 parties. Total hours, 25 (23½ on foot, 1½ by car); total miles, 36 (21 on foot, 15 by car). Cooper's Hawk, 2; Red-tailed Hawk, 10; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 3; European Partridge, 1 (seen at close range—H.S.); Bob-white, 34 (2 coveys); Ring-necked Pheasant, 2; Rock Dove, 3 (wild); Mourning Dove, 3; Barred Owl, 1; Short-eared Owl, 1; Yellow-shafted Flicker, 21; Pileated Woodpecker, 3; Red-bellied Woodpecker, 28; Red-headed Woodpecker, 66; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 16; Downy Woodpecker, 28; Horned Lark (Prairie), 28; Blue Jay, 37; Am. Crow, 1; Carolina Chickadee, 36; Tufted Titmouse, 62; White-breasted Nuthatch, 37; Red-breasted Nuthatch, 42; Brown Creeper, 4; Winter Wren, 3; Carolina Wren, 1; Robin, 2; Eastern Bluebird, 24; Golden-crowned Kinglet, 1; Starling, 141; English Sparrow, 240; Eastern Meadowlark, 1; Brown-headed Cowbird, 4; Cardinal, 56; Purple Finch, 2; Am. Goldfinch, 8; Eastern Towhee, 43; Slate-colored Junco, 47; Tree Sparrow, 44; Swamp Sparrow, 1; Song Sparrow, 18; Lapland Longspur, 2 (seen by all observers). **Total,** 46 species; 1112 individuals.—C. Wagner, E. Wagner, H. Schuer, O. Zurcher, H. Burtt, A. Claugus.

206. Van Wert, Ohio (same area as previously; open farmland 35%, deciduous swamp forest 65%). —Dec. 26; 7:45 a.m. to 12:45 p.m. Rain all a.m., clearing late p.m.; temp. 42° to 46°; wind S to SW, 3-7 m.p.h.; no frost in ground. Six observers in 3 parties. Total hours, 13; total miles, 23. Cooper's Hawk, 1; Marsh Hawk, 8; Ring-necked Pheasant, 1; Mourning Dove, 26; Barn Owl, 1; Barred Owl, 1; Yellow-shafted Flicker, 10; Downy Woodpecker, 2; Blue Jay, 6; Am. Crow, 18; Tufted Titmouse, 2; White-breasted Nuthatch, 2; Starling, 1; English Sparrow, 64; Cardinal, 9; Slate-colored Junco, 23; Tree Sparrow, 109; Song Sparrow, 11. **Total,** 18 species; 295 individuals. (Seen in area previous day: Rough-legged Hawk, 2.)—E. E. Good, William F. Wydallis, E. C. Feigert, Denton Stetler, George Brooks, Arthur S. Brooks (Upper Maumee Valley Naturalists Club).

207. Warren, Trumbull Co., Ohio (center of town to point 4 miles northeast; at Game Refuge area along Mosquito Creek, deciduous woodlots, thorn bushes, and marsh, back through open fields; Howland Corners area, 4 miles east of Warren, wooded ravine and open farmland; North Road area, 2½ miles east of Warren, open farmland and deciduous trees; York Street Park (Genessee Woods, and Packard Park areas; Old Mahoning Ave. cemetery; Phalanx Mills, 7 miles west of Warren, along north and south side of Eagle Creek for 1 mile, and Beaver Pond north side, brushy stream banks, pasture fields through woodland) —Dec. 30; 7:45 a.m. to 5:15 p.m. Clear; temp. 10° to 32°; wind less than 1 m.p.h.; frosty ground, skim of ice on open water. Sixty observers in 8 groups. Total hours, 114½ (111½ on foot, 3 in car); total miles, 44 (23 on foot, 21 in car). Red-shouldered Hawk, 1; Bob-white, 74; Ring-necked Pheasant, 13; Mourning Dove, 2; Barred Owl, 1; Yellow-shafted Flicker, 3; Pileated Woodpecker, 1 (A.N.R.); Red-bellied Woodpecker, 2 (A.N.R.); Hairy Woodpecker, 3; Downy Woodpecker, 26; Eastern Phoebe, 2 (Mrs. Mary Knapp); Blue Jay, 197; Am. Crow, 4; Black-capped Chickadee, 287; Tufted Titmouse, 41; White-breasted Nuthatch, 42; Red-breasted Nuthatch, 6; Brown Creeper, 1; Robin, 7; Eastern Bluebird, 2 (Wise); Golden-crowned Kinglet, 1 (C.R.); Cedar Waxwing, 42; Starling, 271; English Sparrow, 768; Eastern Meadowlark, 2; Cardinal, 89; Am. Goldfinch, 3; Eastern Towhee, 1; Slate-colored Junco, 180; Tree Sparrow, 79; Song Sparrow, 3. **Total,** 31 species; 2154 individuals. (Seen in area Jan. 1 and 2: Bohemian Waxwing 100 [40 est., 60] by Mrs. D.R.W.)—Mrs. Dean R. Wilson, Mrs. Ralph Wise, Almon N. Rood, M. E. Mollenkopf, Mrs. Ben White, Mrs. Charles Miller, Caroline Rowland, Georgene M. Smith, and others. [Names not given—Ed.].

208. Youngstown, Ohio (along Yellow Creek to Pennsylvania State Line, through woods along Beaver, Pine, Evans, Hamilton, and McKelvey lakes; south edge of Mosquito Lake, Mosquito Creek woods south to Niles; Mill Creek from source north through woods and flats to Mill Creek Park; Meander Creek, reservoir and woods and intervening farmland; practically complete coverage of county; open farmland and pastures 60%, wooded area 30%, lakes 10%).—Dec. 26; 7 a.m. to 5:30 p.m. Mostly overcast with frequent light to heavy showers, culminating in steady downpour from 1:30 on, with heavy fog, arising from the lakes. Twenty-four observers in 11 parties. Total man-hours, about 160; total miles, about 70 afoot. Pied-billed Grebe, 1; Canada Goose, 378; Mallard, 290; Black Duck, 736; Gadwall, 6; Baldpate, 13; Pintail, 13; Redhead, 3; Canvas-back, 1; Am. Golden-eye, 1; Hooded Merganser, 15; Am. Merganser, 12; Red-breasted Merganser, 3; Sharp-shinned Hawk, 1; Cooper's Hawk, 3; Red-tailed Hawk, 4; Red-shouldered Hawk, 4; Bald Eagle, 2; Marsh Hawk, 3; Sparrow Hawk, 21; Ruffed Grouse, 1; Bob-white, 52; Ring-necked Pheasant, 16; Herring Gull, 3; Ring-billed Gull, 1; Mourning Dove, 158; Barn Owl, 2; Screech Owl, 3; Horned Owl, 1; Snowy Owl, 1; Barred Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 12; Red-bellied Woodpecker, 8; Red-headed Woodpecker, 7; Hairy Woodpecker, 13; Downy Woodpecker, 70; Horned Lark, 68 (Northern, 30; Prairie, 38); Blue Jay, 83; Am. Crow, 1103; Black-capped Chickadee, 217; Tufted Titmouse, 208; White-breasted Nuthatch, 79; Red-breasted Nuthatch, 8; Brown Creeper, 16; Winter Wren, 3; Catbird, 3; Robin, 8; Eastern Bluebird, 2; Golden-crowned Kinglet, 32; Cedar Waxwing, 39; Starling, 1801; English Sparrow, 824; Eastern Meadowlark, 4; Red-wing, 1; Cardinal, 84; Evening Grosbeak, 8; Pine Siskin, 7; Am. Goldfinch, 64; Eastern Towhee, 2; Slate-colored Junco, 133; Tree Sparrow, 481; Field Sparrow, 3; Swamp Sparrow, 1; Song Sparrow, 62; Lapland Longspur, 2; Snowy Bunting, 251. **Total,** 69 species; 7458 individuals. (Seen during 2 days before or after count: Ruddy Duck, 2; Green-winged Teal, 15; Buffle-head, 2; Killdeer, 1; Pileated Woodpecker, 2.)—W. C. Baker, Bill Berman, John Barrow, Carl Biorklund, Bill Brown, M. Cook, H. Culbertson, E. Dressel, F. F. Ferris, W. H. Findley, Albert Hartley, H. O. Heimerdinger, H. A. Johnson, R. O. Marshall, L. D. Miller, Edith Murray, Ed O. Minich, M. Mollenkopf, G. R. Madtes, W. Richter, Cora Turner, A. J. Wardle, J. Webb, Vincent P. McLaughlin (Grant M. Cook Bird Club).

209. Charleston, W.Va. (suburbs, Great Kanawha River valley and adjacent hills and valleys from Marmet to Institute, Elk River and vicinity from Big Chimney to Charlton, So. Charleston to Kanawha State Forest; open farmland and grassland 14%, woodland 43%, wooded river-bottom 43%).—Dec. 31; 6:30 a.m. to 5:30 p.m. Partly cloudy to overcast; temp. 25° to 48°; no wind; ground bare. Twenty-six observers in 14 parties. Total hours, 92 (16 at feeders, 68 on foot, 8 by car); total miles, 170 (61 on foot, 109 by car). Pied-billed Grebe, 2; Hooded Merganser, 1; Wilson's Snipe, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Sparrow Hawk, 8; Bob-white, 8 (1 covey);

Killdeer, 20; Rock Dove (feral), 43; Mourning Dove, 11; Screech Owl, 1; Barred Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 4; Pileated Woodpecker, 3; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 3; Yellow-bellied Sapsucker, 1; Hairy Woorpecker, 14; Downy Woodpecker, 53; Eastern Phoebe, 3; Horned Lark, 21; Blue Jay, 71; Am. Crow, 19; Carolina Chickadee, 245; Tufted Titmouse, 224; White-breasted Nuthatch, 38; Red-breasted Nuthatch, 10; Brown Creeper, 4; Winter Wren, 12; Carolina Wren, 109; Mockingbird, 1; Robin, 58; Hermit Thrush, 14; Eastern Bluebird, 19; Golden-crowned Kinglet, 15; Ruby-crowned Kinglet, 1; Cedar Waxwing, 12; Starling, 716; Myrtle Warbler, 2; English Sparrow, 328; Eastern Meadowlark, 7; Cardinal, 523; Am. Goldfinch, 324; Purple Finch, 8; Pine Siskin, 2; Chipping Sparrow, 1 (W.R.D.); Eastern Towhee, 329; Savannah Sparrow, 1 (W.R.D.); Slate-colored Junco, 539; Tree Sparrow, 128; Field Sparrow, 237; White-crowned Sparrow, 26; White-throated Sparrow, 362; Fox Sparrow, 4; Swamp Sparrow, 25; Song Sparrow, 505. **Total,** 57 species; about 5124 individuals. (Seen near Chelyan, Kanawha Co., Dec. 29: Catbird, 1—C.O.H., Sr.)—Mr. and Mrs. John Handlan, Mr. and Mrs. W. R. DeGarmo, C. O. Handley, Sr., C. O. Handley, Jr., John M. Handley, Sarah Barber, Lucy Barber, Mrs. Frank Norwood, Mrs. Robert Ketchum, Eleanor Sims, Al Shields, James E. McCarty, Sybil Ball, Truth Keeley, Ura Keeley, Herbert Tag, Mr. and Mrs. William Strunk, Gladys Murrey, Pearl Gregg, Edna Gregg, Mrs. W. W. Trent, Frank M. Johnson, R. Wayne Bailey (Charleston Chapter, Brooks Bird Club).

210. Cheat Bridge, W.Va. (7½-mile circle centered 2 miles east of Cheat Bridge; Durbin, Bartow, Thornwood, Cheat Bridge, east and west forks of Greenbriar River, Shavers Fork, Gaudineer, Whitetop, Cheat Mountain Road, Blister Run, Whitmeadow Run, Red Run, Riffle Creek, Rocky Creek; altitude 2200-4449 ft.; pure spruce-fir forests 5%, spruce-fir-northern hardwoods 33%, northern hardwoods 37%, open farmland 12%, rhododendron-laurel thickets 3%, marshes and river borders 10%).—Dec. 29; 6 a.m. to 6:30 p.m. Fair; temp. 28° to 42°; wind WSW, 5-10 m.p.h. on ridge; ground bare; marshes and backwaters generally frozen, creeks open. Six observers in 3 parties in a.m., 2 in p.m. Total hours, 27 (4 by car, 23 on foot); total miles, 91 (70 by car, 21 on foot). Cooper's Hawk, 1; Red-tailed Hawk, 1; Sparrow Hawk, 2; Ruffed Grouse, 6; Woodcock, 1 (Blister Run, alt. 3600 ft.—F.R.S.); Barred Owl, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 7; Blue Jay, 4; Common Raven, 3; Am. Crow, 5; Black-capped Chickadee, 115; Tufted Titmouse, 18; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 19; Brown Creeper, 3; Winter Wren, 2; Carolina Wren, 2; Eastern Bluebird, 6; Golden-crowned Kinglet, 62; Starling, 260 (250 est., 10); English Sparrow, 42; Eastern Meadowlark, 8; Cardinal, 8; Purple Finch, 2; Pine Siskin, 24; Am. Goldfinch, 2; Slate-colored Junco, 13; Field Sparrow, 10; Tree Sparrow, 10; Song Sparrow, 4. **Total,** 32 species; about 649 individuals.—Mr. and Mrs. W. R. DeGarmo, K. Lawless, F. R. Scott, C. E. Stevens, H. Uhlig.

211. Huntington, W.Va. (same area as 1940 and subsequent counts; open fields, deciduous woodlands, mixed conifers, river, ponds, sanctuary, parks, etc.)—Dec. 26; 1 a.m. to 5 p.m. Cloudy, showers throughout day; temp. 45° to 60°; quiet and muddy. Twenty-two observers in 10 parties. Total hours, 55 (48 on foot, 7 by car); total miles, 240 (32 on foot, 208 by car). Great Blue Heron, 2; Black-crowned Night Heron, 1; Mallard, 1; Black Duck, 8; Am. Golden-eye, 2; Buffle-head, 3; Red-breasted Merganser, 2; Sparrow Hawk, 11; Bob-white, 31; Killdeer, 15; Woodcock, 1; Herring Gull, 1; Mourning Dove, 10; Barn Owl, 1; Screech Owl, 1; Horned Owl, 1; Barred Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 8; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 7; Downy Woodpecker, 36; Eastern Phoebe, 5; Horned Lark, 35; Blue Jay, 53; Am. Crow, 1053; Carolina Chickadee, 174; Tufted Titmouse, 128; White-breasted Nuthatch, 10; Red-breasted Nuthatch, 3; Brown Creeper, 13; Winter Wren, 3; Carolina Wren, 37; Mockingbird, 11; Robin, 3; Hermit Thrush, 3; Eastern Bluebird, 57; Golden-crowned Kinglet, 4; Cedar Waxwing, 19; Starling, 520; Myrtle Warbler, 5; Pine Warbler, 2; English Sparrow, 148; Eastern Meadowlark, 38; Red-wing, 3; Cardinal, 199; Purple Finch, 16; Pine Siskin, 3; Am. Goldfinch, 107; Eastern Towhee, 59; Vesper Sparrow, 6; Slate-colored Junco, 182; Tree Sparrow, 25; Field Sparrow, 80; White-throated Sparrow, 53; Swamp Sparrow, 2; Song Sparrow, 118. **Total,** 57 species; 3325 individuals. (On Dec. 25, 1 Snowy Owl, 25 mi. east of Huntington toward Pt. Pleasant—Oscar Price. On Dec. 28, 1 Western Palm Warbler.)—Virginia Cavendish, Robert Van Blaricom, Hugh Land, Holwell Land, Mrs. H. D. Hale, Nell Rose Hale, James Shires, W. J. McElfresh, Mrs. H. A. Resener, Mrs. Ira Kail, Mrs. Louis Unmusseg, N. B. Green, George Gunnoe, John Mortison, Mrs. John Mortison, Mrs. W. H. Odell, Mrs. W. V. Coakley, Mrs. Grady Risen, James Dunkle, Mrs. C. W. Kerr, William Vickery, R. M. Edeburn (Huntington Bird Study Club).

212. Morgantown, W.V. (vicinity of Morgantown, Fields Park, and Cheat Lake; same general territory as in past several years; farmlands, fallow fields, forestlands, and water).—Dec. 31; 7:30 a.m. to 5 p.m. Fair; temp. 30° at start, rising to 45° in p.m.; no wind. Three observers in 2 parties, 1 of which helped only in p.m. Total hours, 14; total miles, 45 (35 by car, 10 on foot). Common Loon, 1; Horned Grebe, 1; Pied-billed Grebe, 1; Buffle-head, 2; Ruddy Duck, 3; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Sparrow Hawk, 2; Bob-white, 7; Barred Owl, 1; Yellow-shafted Flicker, 4; Pileated Woodpecker, 2; Downy Woodpecker, 11; Horned Lark, 14; Am. Crow, 35; Black-capped Chickadee, 21; Tufted Titmouse, 24; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 2; Carolina Wren, 19;

Hermit Thrush, 1; Eastern Bluebird, 8; Ruby-crowned Kinglet, 1; Golden-crowned Kinglet, 3; Starling, 225; Myrtle Warbler, 1; English Sparrow, 400+; Cardinal, 30; Am. Goldfinch, 22; Eastern Towhee, 1; Slate-colored Junco, 67; Tree Sparrow, 32; Field Sparrow, 26; Song Sparrow, 20. **Total,** 34 species; 991+ individuals.—Aaron H. Rapking, Maurice Brooks, I. B. Boggs.

213. Mt. Lookout (Nicholas Co.), W.Va. (same area as in 1941 and later counts; deciduous and hemlock woodland 74%, pine grove 1%, farmland 25%).—Dec. 29; 7:45 a.m. to 5:15 p.m. Clear; temp. 24° to 50°; no wind; ground bare. Three observers, separate in a.m., together most of p.m. Total hours, 19; total miles, 19 (on foot). Cooper's Hawk, 1; Bob-white, 3; Yellow-shafted Flicker, 3; Pileated Woodpecker, 7; Hairy Woodpecker, 4; Downy Woodpecker, 6; Blue Jay, 5; Am. Crow, 52; Chickadee (sp.), 14; Tufted Titmouse, 41; White-breasted Nuthatch, 13; Red-breasted Nuthatch, 6, Brown Creeper, 1; Carolina Wren, 5; Robin, 3; Hermit Thrush, 2; Eastern Bluebird, 9; Golden-crowned Kinglet, 36; Starling, 6; English Sparrow, 8; Eastern Meadowlark, 32; Cardinal, 57; Pine Siskin, 1; Am. Goldfinch, 56; Slate-colored Junco, 239; Tree Sparrow, 18; Song Sparrow, 10. **Total,** 27 species; 638 individuals. (Seen in area Dec. 30 and 31, Black Duck, 1; Dec. 30, Ruffed Grouse, 4; Dec. 31, Winter Wren.)—W. C. Legg, Alton McClung, Joe Wilmoth.

214. Wheeling (Ohio Co.), W.Va. (city proper; Warwood, Oglebay Park, Miller's Hollow, Big Wheeling Creek Valley, Middle Wheeling Creek Valley, Ohio County Air Port, Bear Rock Lake, Avalon Lake, Route 88 to West Liberty; open farmland and fields 25%, deciduous woods 25%, mixed conifers 5%, brushy roadsides 10%, along creeks 25%, city proper 10%).—Dec. 31; 7 a.m. to 6 p.m. Cloudy but bright; temp. 26° to 40°; wind slight on hilltops only; water mostly frozen on ponds and lakes. Fourteen observers in 4 parties. Total hours, 64 (58 on foot, 6 by car); total miles, 140 (44 on foot, 96 by car). Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Broad-winged Hawk, 1 [no details; very improbable—Ed.]; Marsh Hawk, 1; Sparrow Hawk 2; Ruffed Grouse, 2; Bob-white, 2; Ring-necked Pheasant, 1; Killdeer, 1; Mourning Dove, 2; Barn Owl, 1; Screech Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 7; Pileated Woodpecker, 4; Red-bellied Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 6; Downy Woodpecker, 76; Horned Lark, 5; Am. Crow, 225; Carolina Chickadee, 160; Tufted Titmouse, 96; White-breasted Nuthatch, 14; Red-breasted Nuthatch, 2; Brown Creeper, 8; Carolina Wren, 42; Robin, 2; Veery, 1 [no details; very improbable—Ed.]; Eastern Bluebird, 12; Golden-crowned Kinglet, 17; Cedar Waxwing, 20; Starling, 340; Myrtle Warbler, 2; English Sparrow, 510; Cardinal, 140; Am. Goldfinch, 4; Eastern Towhee, 1; Slate-colored Junco, 160; Tree Sparrow, 84; Field Sparrow, 2; White-throated Sparrow, 1; Song Sparrow, 130. **Total,** 43 species; 2094 individuals. (Seen in area during period: Herring Gull, 1; Bob-white, 8; Ruby-crowned Kinglet, 1.)—Marian Freeman, Rachel Thomas, Carolyn Conrad, Don Reese, William Bruhn, Pierre Roberts, Stewart Freeman, Earl Vanscoy, Terry Roberts, Foster Brown, Robert McCausland, William Wylie, Grant MacNichols, Charles Conrad (Headquarters Chapter, Brooks Bird Club).

215. Bowling Green, Ky. (Chaney, McElroy, Schneider farms; mouth of Gasper area; open farmland 25%, woods and thickets 50%, stream banks 25%).—Dec. 24; 6:30 a.m. to 4:45 p.m. Clear; temp. 20° to 48°; wind W, 1-7 m.p.h. Three observers in 2 parties. Total hours, 19½ (on foot); total miles, 14. Pied-billed Grebe, 1; Mallard, 30; Hooded Merganser, 4; Turkey Vulture, 6; Black Vulture, 5, Cooper's Hawk, 2; Red-tailed Hawk, 2; Red-shouldered Hawk, 2; Sparrow Hawk, 1; Killdeer, 8; Wilson's Snipe, 7; Mourning Dove, 43; Barred Owl, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 34; Pileated Woodpecker, 10; Red-bellied Woodpecker, 15; Red-headed Woodpecker, 10; Yellow-bellied Sapsucker, 8; Hairy Woodpecker, 6; Downy Woodpecker, 22; Eastern Phoebe, 2; Horned Lark, 43; Blue Jay, 31; Am. Crow, 3100 (part of an immense roost); Carolina Chickadee, 66; Tufted Titmouse, 48; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 7 (1st count record); Brown Creeper, 10; Winter Wren, 4; Bewick's Wren, 1; Carolina Wren, 26; Mockingbird, 16; Robin, 79; Hermit Thrush, 5; Eastern Bluebird, 54; Golden-crowned Kinglet, 2; Cedar Waxwing, 17; Loggerhead Shrike, 4; Starling, 2225; Myrtle Warbler, 10; Palm Warbler, 2 (1st count record); English Sparrow, 62; Eastern Meadowlark, 134; Cardinal, 142; Purple Finch, 10; Am. Goldfinch, 95; Eastern Towhee, 38; Savannah Sparrow, 7; Slate-colored Junco, 77; Field Sparrow, 44; White-crowned Sparrow, 115; White-throated Sparrow, 101; Swamp Sparrow, 7; Song Sparrow, 72. **Total,** 56 species; 6880 individuals. (Recorded within a week of count: Black Duck, Lesser Scaup Duck, Rough-legged Hawk, Screech Owl, Ruby-crowned Kinglet, Brown-headed Cowbird.)—L. Y. Lancaster, C. L. Taylor, Gordon Wilson (Western Kentucky State College).

216. Danville (Boyle Co.), Ky. (R. S. Dulin Farm, main roads, connecting roads covering agricultural farmlands, some woods, along streams).—Dec. 31; 8:30 a.m. to 4:30 p.m. Cloudy; temp. 42° to 52°. Four observers together. Total miles, 25 (1½ on foot, 23½ by car). Horned Grebe, 1; Great Blue Heron, 1; Baldpate, 1; Turkey Vulture, 2; Red-tailed Hawk, 3; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 16; Killdeer, 8; Wilson's Snipe, 3; Barred Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 1; Hairy Woodpecker, 1; Am. Crow, 160; Carolina Chickadee, 39; Tufted Titmouse, 21; Carolina Wren, 4; Mockingbird, 8; Robin, 2; Eastern Bluebird, 26; Starling, 665; Palm Warbler, 1; English Sparrow, 105; Eastern Meadowlark, 25; Cardinal, 41; Slate-colored Junco, 22; Field Sparrow, 1; White-crowned Sparrow, 9; White-

throated Sparrow, 5; Song Sparrow, 22. **Total,** 31 species; 1198 individuals.—Mrs. McBrayer Moore, Mrs. Rodes-Read, Mr. and Mrs. Scott Glore, Jr.

217. Louisville, Ky. (Ohio River from Louisville to Twelve-mile Island, inland to Prospect, Anchorage, and Valley Station, including Shawnee, Iroquois, Cherokee, and Seneca parks; Ohio River and banks 25%, fields and farmland 25%, brushy fields and new growth 30%, deciduous woodland 20%).—Dec. 26; 5:30 a.m. to 4:30 p.m. Heavy clouds and rain throughout day; Temp. 33° to 56°; strong wind only until 7 a.m., no wind thereafter. Thirty-one observers in 14 parties. Total party-hours, 76½; total party-miles, 209½ (181 by car, 28½ on foot). Pied-billed Grebe, 4; Mallard, 216+; Black Duck, 200+; Green-winged Teal, 1; Redhead, 1; Ring-necked Duck, 2; Canvas-back, 10; Lesser Scaup Duck, 154+; Am. Golden-eye, 1; Bufflehead, 8; Old-squaw, 1; Ruddy Duck, 1; Am. Merganser, 11; Turkey Vulture, 3; Black Vulture, 1; Cooper's Hawk, 3; Red-tailed Hawk, 2; Red-shouldered Hawk, 3; Marsh Hawk, 5; Sparrow Hawk, 22; Bob-white, 1; Killdeer, 4; Herring Gull, 21; Ring-billed Gull, 100+; Bonaparte's Gull, 1 (L.C.B., J.F., B.L.M., Sr. and Jr.); Mourning Dove, 44; Screech Owl, 1; Horned Owl, 1; Barred Owl, 1; Short-eared Owl, 2; Belted Kingfisher, 5; Yellow-shafted Flicker, 30; Pileated Woodpecker, 4; Red-bellied Woodpecker, 19; Red-headed Woodpecker, 6; Yellow-bellied Sapsucker, 5; Hairy Woodpecker, 7; Downy Woodpecker, 24; Horned Lark, 32; Blue Jay, 88; Am. Crow, 714+; Carolina Chickadee, 104; Tufted Titmouse, 51; White-breasted Nuthatch, 11; Red-breasted Nuthatch, 3; Brown Creeper, 11; Winter Wren, 1; Carolina Wren, 34; Mockingbird, 39; Robin, 29; Eastern Bluebird, 33; Golden-crowned Kinglet, 17; Ruby-crowned Kinglet, 3; Loggerhead Shrike, 2; Starling, 869+; Myrtle Warbler, 4; English Sparrow, 179+; Eastern Meadowlark, 13; Cardinal, 293+; Am. Goldfinch, 49; Eastern Towhee, 75; Slate-colored Junco, 255; Tree Sparrow, 24; Field Sparrow, 21; White-crowned Sparrow, 16; White-throated Sparrow, 39; Fox Sparrow, 3; Swamp Sparrow, 13; Song Sparrow, 150+. **Total,** 69 species; about 4100 individuals. Poor visibility and extremely bad weather conditions account for lack of more waterfowl and land birds. (Seen during week: Bald Eagle, Gadwall [♀], Greater Scaup Duck [ad. ♂ in company with pair of Lesser Scaup Ducks—B.L.M., Sr. and Jr.], Glaucous Gull [in first winter plumage, observed at Falls of the Ohio—H.B.L., B.L.M., Sr. and Jr.], Palm Warbler, Hermit Thrush, Purple Finch.)—Leonard C. Brecher, Floyd Carpenter, Harriett Clark, William Clay, John Flexner, Paxton Gibbs, Sabra Hanson, Louise Isfort, Doris Kline, Eleanor Lovell, Mr. and Mrs. Harvey B. Lovell, John Lovell, Burt L. Monroe, Sr., Burt L. Monroe, Jr., Louis Pieper, Marie Pieper, Evelyn Schneider, Walter Shackleton, Bernice Shannon, Francis Shannon, Jerry Smith, Thomas P. Smith, Ann Stamm, Fred Stamm, Robert Steilberg, Charles Strull, Donald Summerfield, Mr. and Mrs. S. Charles Thatcher, V. Windstanley (Kentucky Ornith. Soc.).

218. Lower Kentucky Lake, Ky. (from Kentucky Dam southward to Jonathan Creek, eastward across Kentucky Woodlands National Wildlife Refuge to Cumberland River and Rock Castle road; open water 32%, field borders 36%, lowland woods 16%, upland woods 3%, shore line 13%).—Dec. 27; 6 a.m. to 5 p.m. Partly cloudy; temp. 56° to 46°; wind NW, 1-12 m.p.h.; ground very wet. Eight observers in 3 parties. Total hours, 28 (24 on foot, 2 in motorboat, 2 by car); total miles, 87 (57 by car, 18 on foot, 12 in motorboat). Pied-billed Grebe, 4; Double-crested Cormorant, 9; Great Blue Heron, 6; Canada Goose, 1825 (est.); Blue Goose, 3; Mallard, 4375 (est.); Black Duck, 2050 (est.); Gadwall, 1; Baldpate, 100; Pintail, 7; Green-winged Teal, 1; Shoveller, 1; Ring-necked Duck, 30; Lesser Scaup Duck, 4; Am. Golden-eye, 19; Buffle-head, 1; Hooded Merganser, 60; Am. Merganser, 15; Red-breasted Merganser, 20; Black Vulture, 3; Cooper's Hawk, 1; Red-shouldered Hawk, 5; Bald Eagle, 4; Marsh Hawk, 2; Sparrow Hawk, 1; Bob-white, 12; Turkey, 5; Killdeer, 4; Herring Gull, 25; Ring-billed Gull, 3000 (est.); Mourning Dove, 103; Barred Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 5; Pileated Woodpecker, 1; Red-bellied Woodpecker, 17; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 6; Horned Lark, 4; Blue Jay, 7; Am. Crow, 60; Carolina Chickadee, 30; Tufted Titmouse, 18; White-breasted Nuthatch, 5; Brown Creeper, 2; House Wren, 1; Carolina Wren, 6; Mockingbird, 4; Brown Thrasher, 2; Robin, 55; Eastern Bluebird, 14; Starling, 13; English Sparrow, 24; Eastern Meadowlark, 10; Red-wing, 20; Cardinal, 77; Purple Finch, 12; Am. Goldfinch, 16; Eastern Towhee, 20; Savannah Sparrow, 1; Slate-colored Junco, 86; Tree Sparrow, 10; Field Sparrow, 7; White-crowned Sparrow, 3; White-throated Sparrow, 32; Fox Sparrow, 1; Swamp Sparrow, 32; Song Sparrow, 16. **Total,** 70 species; about 12,318 individuals.—Eugene Cypert, Mary Louise Cypert, Grover Elgan, Rex Holland, John Morse, A. M. Wolfson, Mary Ann Wolfson, Nancy Wolfson.

219. Madisonville, Ky. (W. W. Hancock farm, 5 lakes at Madisonville and Earlington, Brown and Hewitt roads, and cattail marsh; open fields 40%, deciduous woods and thickets 25%, lake shores 25%, cattail marsh 10%).—Dec. 29; 6:45 a.m. to 5:15 p.m. Clear; temp. 25° to 60°; wind SW, 1-7 m.p.h. Total hours, 10½; total miles, 27 (7 on foot, 20 by car). Pied-billed Grebe, 1; Ring-necked Duck, 72; Canvas-back, 3; Red-tailed Hawk 1; Marsh Hawk, 1; Sparrow Hawk, 3; Bob-white, 7; Wilson's Snipe, 2; Mourning Dove, 29; Belted Kingfisher, 3; Yellow-shafted Flicker, 17; Pileated Woodpecker, 3; Red-bellied Woodpecker, 4; Red-headed Woodpecker, 13; Downy Woodpecker, 7; Blue Jay, 20; Am. Crow, 10; Carolina Chickadee, 19; Tufted Titmouse, 17; White-breasted Nuthatch, 1; Bewick's Wren, 2; Carolina Wren, 20; Mockingbird, 13; Robin, 35; Hermit Thrush, 3; Eastern Bluebird, 14; Cedar Waxwing, 10; Starling, 210; Myrtle War-

bler, 4; English Sparrow, 106; Eastern Meadowlark, 59; Red-wing, 175; Cardinal, 38; Am. Goldfinch, 25; Eastern Towhee, 28; Slate-colored Junco, 108; Tree Sparrow, 25; Field Sparrow, 54; White-crowned Sparrow, 2; White-throated Sparrow, 12; Fox Sparrow, 2; Swamp Sparrow, 20; Song Sparrow, 37. **Total,** 43 species; 1235 individuals. (Seen during period: Cooper's Hawk, 1; Red-shouldered Hawk, 1; Killdeer, 34; Barred Owl, 1; Hairy Woodpecker, 1; Winter Wren, 1; Golden-crowned Kinglet, 1; Purple Finch, 1.—James W. Hancock.

220. Murray and New Concord, Ky. (from a point 3 miles west of Murray, eastward across Kentucky Lake to Tennessee line, southward to Tennessee line, northward to Ledbetter Creek; open water 30%, field border 48%, lowland woods 13%, upland woods 6%, urban 3%).—Dec. 27; 6 a.m. to 5 p.m. Partly cloudy; temp. 56° to 46°; wind NW, 1-12 m.p.h.; ground very wet. Five observers in 3 parties. Total hours, 27 (4 in motorboat, 22 on foot, 1 by car); total miles, 79 (25 in motorboat, 35 in car, 19 on foot). Common Loon, 1; Double-crested Cormorant, 1; Great Blue Heron, 1; Canada Goose, 13; Mallard, 305; Black Duck, 250; Gadwall, 75; Baldpate, 8; Wood Duck, 15; Redhead, 1; Ring-necked Duck, 18; Canvas-back, 1; Lesser Scaup Duck, 10; Am. Golden-eye, 50; Buffle-head, 4; Hooded Merganser, 450 (est.); Am. Merganser, 10; Turkey Vulture, 18; Black Vulture, 7; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 1; Bald Eagle, 4; Marsh Hawk, 1; Pigeon Hawk, 1 [no details—Ed.]; Sparrow Hawk, 3; Bob-white, 13; Killdeer, 2; Herring Gull, 40; Ring-billed Gull, 500 (est.); Mourning Dove, 17; Belted Kingfisher, 2; Yellow-shafted Flicker, 7; Pileated Woodpecker, 2; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 3; Downy Woodpecker, 7; Blue Jay, 27; Am. Crow, 41; Carolina Chickadee, 49; Tufted Titmouse, 45; White-breasted Nuthatch, 2; Brown Creeper, 3; Bewick's Wren, 2; Carolina Wren, 6; Mockingbird, 11; Robin, 93; Eastern Bluebird, 60; Golden-crowned Kinglet, 12; Am. Pipit, 6; Loggerhead Shrike, 3; Starling, 246; English Sparrow, 66; Eastern Meadowlark, 17; Red-wing, 500 (est.); Cardinal, 48; Purple Finch, 4; Am. Goldfinch, 22; Eastern Towhee, 22; Slate-colored Junco, 145; Tree Sparrow, 18; Field Sparrow, 38; White-crowned Sparrow, 4; White-throated Sparrow, 16; Fox Sparrow, 1; Swamp Sparrow, 13; Song Sparrow, 36. **Total,** 67 species; about 3408 individuals.—Tom Butler, John DeLime, Mary Agnes DeLime, C. W. Kemper, Kathleen Key.

221. Otter Creek Park (Meade Co.), Ky. (farmland 10%, brushy fields 25%, Ohio River banks 10%, deciduous woods 55%).—Dec. 31; 8:10 a.m. to 5 p.m. Cloudy; temp. 35° to 55°; wind 1-7 m.p.h. Nine observers in 4 parties. Total hours, 30 (25 on foot, 5 by car); total miles, 30 (20 on foot, 10 by car). Lesser Scaup Duck, 1; Cooper's Hawk, 1; Red-shouldered Hawk, 2; Bob-white, 10; Belted Kingfisher, 1; Yellow-shafted Flicker, 19; Pileated Woodpecker, 3; Red-bellied Woodpecker, 8; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 28; Blue Jay, 30; Am. Crow, 77; Carolina Chickadee, 101; Tufted Titmouse, 38; White-breasted Nuthatch, 8; Brown Creeper, 14; Winter Wren, 1; Carolina Wren, 25; Mockingbird, 11; Robin, 197; Hermit Thrush, 8; Eastern Bluebird, 25; Golden-crowned Kinglet, 13; Ruby-crowned Kinglet, 2; Cedar Waxwing, 82; Myrtle Warbler, 20; English Sparrow, 5; Eastern Meadowlark, 5; Cardinal, 48; Purple Finch, 36; Am. Goldfinch, 89; Eastern Towhee, 16; Slate-colored Junco, 158; Tree Sparrow, 13; Chipping Sparrow, 1 (E.J.S.); Field Sparrow, 3; White-crowned Sparrow, 1; White-throated Sparrow, 1; Fox Sparrow, 7; Swamp Sparrow, 14; Song Sparrow, 14. **Total,** 42 species; 1138 individuals.—Floyd Carpenter, Jack Clark, Bob Kaiser, Harvey Lovell, John Lovell, Evelyn J. Schneider, Mr. and Mrs. Fred Stamm, Donald Summerfield (Kentucky Ornith. Society).

222. Elizabethton, Tenn. (same area as in past 6 years with center at Valley Forge; Watauga Lake, Watauga and Doe rivers, Buffalo and Gap creeks, and adjacent areas; lake border 5%, stream borders 60%, woodlands 25%, open fields 10%).—Jan. 1; 7:30 a.m. to 5:30 p.m. Clear in a.m., overcast to cloudy in p.m.; temp. 29° at start, 47° at end; calm in valleys, wind 5-15 m.p.h. at higher altitudes. Fifteen observers in 6 parties. Total party-hours, 34; total miles, 88 (33 on foot, 55 by car). Pied-billed Grebe, 11; Cooper's Hawk, 2; Red-tailed Hawk, 1; Sparrow Hawk, 3; Ruffed Grouse, 4; Killdeer, 35; Mourning Dove, 91; Screech Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 5; Pileated Woodpecker, 3; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 13; Eastern Phoebe, 6; Horned Lark, 22; Blue Jay, 8; Am. Crow, 71; Black-capped Chickadee, 8 (4000-4300 ft. —F.W.B., S.M.R.); Carolina Chickadee, 71; Tufted Titmouse, 29; Red-breasted Nuthatch, 2; Brown Creeper, 1; Carolina Wren, 31; Mockingbird, 9; Catbird, 1 (J.C.B., L.B.); Robin, 4; Hermit Thrush, 2; Eastern Bluebird, 39; Golden-crowned Kinglet, 7; Ruby-crowned Kinglet, 1; Loggerhead Shrike, 2; Starling, 350 (est.); Myrtle Warbler, 17; English Sparrow, 134; Eastern Meadowlark, 14; Cardinal, 87; Purple Finch, 1; Am. Goldfinch, 80; Eastern Towhee, 8; Slate-colored Junco, 45; Field Sparrow, 54; White-crowned Sparrow, 20; White-throated Sparrow, 81; Fox Sparrow, 3; Swamp Sparrow, 3; Song Sparrow, 56. **Total,** 47 species; about 1439 individuals.—Fred W. Behrend, Mr. and Mrs. J. C. Browning, Katherine and Mrs. Hugo Doob, Jr., Thomas W. Finucane, Lee R. and Lois Herndon, Mr. and Mrs. George K. Leonard, Mrs. Robert W. Pugh, S. M. Russell, Mrs. Hugh L. Taylor, Mrs. E. M. West, Howard S. Young (Elizabethton Chapter, Tennessee Ornithological Society).

223. Great Smoky Mountains National Park, Tenn.-N.C. (essentially same area as in past 12 years; circle with 7½-mile radius centering on Bullhead of Mt. LeConte, including a section of the Tennessee-North Carolina divide from near Cling-

mans Dome to Dry Sluice Gap; towns of Gatlinburg and Pigeon Forge, Tenn.; altitude 1200-6300 ft.; spruce-fir forests 30%, deciduous forest 20%, open farmland 20%, abandoned fields 10%, towns and suburbs 10%, pine forests 5%, stream courses 5%). —Jan. 1; 6:45 a.m. to 5:30 p.m. Partly cloudy to overcast; temp. 30° to 56°; wind W, light at low altitudes, to about 29 m.p.h. at high altitudes; ground bare. Thirty observers in 8 parties. Total party-hours, 65; total miles, 182 (124 by car, 58 on foot). Pied-billed Grebe, 1; Cooper's Hawk, 1; Red-tailed Hawk, 3; Peregrine Falcon, 1; Sparrow Hawk, 3; Ruffed Grouse, 5; Bob-white, 8; Turkey, 4; Killdeer, 35; Mourning Dove, 75; Screech Owl, 2; Horned Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 4; Pileated Woodpecker, 4; Red-bellied Woodpecker, 1; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 13; Eastern Phoebe, 4; Horned Lark, 20; Blue Jay, 3; Common Raven, 5; Am. Crow, 110; Chickadee (both Black-capped and Carolina observed), 148; Tufted Titmouse, 22; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 175; Brown Creeper, 8; House Wren, 1 (Burns); Winter Wren, 4; Bewick's Wren, 1; Carolina Wren, 18; Mockingbird, 6; Robin, 52; Hermit Thrush, 7; Eastern Bluebird, 33; Golden-crowned Kinglet, 62; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 2; Starling, 100 (est.); Myrtle Warbler, 13; Palm Warbler, 3; English Sparrow, 260 (est.); Eastern Meadowlark, 100; Purple Grackle, 3; Cardinal, 48; Purple Finch, 2; Pine Siskin, 135; Am. Goldfinch, 220; Red Crossbill, 32; Eastern Towhee, 8; Savannah Sparrow, 2; Slate-colored Junco (both typical Slate-colored and Carolina represented), 320; Field Sparrow, 75; White-throated Sparrow, 63; Swamp Sparrow, 7; Song Sparrow, 120. **Total,** 59 species (1 additional subspecies); approximately 2360 individuals.—Dr. and Mrs. C. E. Albert, John R. Barrett, Mr. and Mrs. Harvey Broome, Richard C. Burns, Mary Ruth Chiles, Brockway Crouch, Mr. and Mrs. Sumner Dow, Robert J. Dunbar, Robert Goddard, Joseph C. Howell, William M. Johnson, Mr. and Mrs. H. F. Leonhard, Bonnie McDonald, S. R. Meaker, Mr. and Mrs. Robert A. Monroe, Elise Morrell, J. B. Owen, Edward Shelley, Jr., Glen L. Shults, Arthur Stupka, Dr. and Mrs. Samuel R. Tipton, Thomas Walker, D. W. Yambert, William Yambert (Tennessee Ornithological Society and National Park Service).

224. Greeneville, Tenn. (Reed farm along Roaring Fork Creek, Bay's Mt., Tusculum College, Davy Crockett Lake; open farmland 50%, woodlands 30%, streambanks 15%, city suburbs 5%).—Dec. 28; 7:30 a.m. to 5 p.m. Clear; temp. 35° at start, 50° at return; wind 0-5 m.p.h. Eight observers in 4 parties. Total hours afield, 25; total miles, 53 (18 on foot, 35 by car). Great Blue Heron, 2; Turkey Vulture, 36; Black Vulture, 2; Cooper's Hawk, 2; Red-shouldered Hawk, 1; Sparrow Hawk, 5; Killdeer, 3; Mourning Dove, 112; Belted Kingfisher, 2; Yellow-shafted Flicker, 4; Pileated Woodpecker, 4; Red-bellied Woodpecker, 6; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 7; Eastern Phoebe, 1; Wood Pewee, 2 (observed at close range—C.M.S.) [no further substantiating details—Ed.]; Horned Lark, 12; Blue Jay, 28; Am. Crow, 12,800 (est.); Carolina Chickadee, 53; Tufted Titmouse, 45; White-breasted Nuthatch, 11; Red-breasted Nuthatch, 1; Brown Creeper, 3; Bewick's Wren, 5; Carolina Wren, 40; Mockingbird, 34; Robin, 9; Eastern Bluebird, 32; Golden-crowned Kinglet, 8; Starling, 115; Myrtle Warbler, 4; English Sparrow, 73; Eastern Meadowlark, 15; Rusty Blackbird, 35; Cardinal, 137; Am. Goldfinch, 55; Eastern Towhee, 6; Slate-colored Junco, 63; Field Sparrow, 45; White-crowned Sparrow, 22; White-throated Sparrow, 49; Song Sparrow, 35. **Total,** 44 species; about 13,927 individuals. (Seen in area day before count: Screech Owl, 1; Purple Finch, 1.)—Mrs. Willis Clemens, Mrs. Fred Cox, Mr. and Mrs. Richard Nevius (compilers), F. Pickering, C. M. Shanks, Bob & J. B. White.

225. Jackson, Tenn. (Huntersville east to West Tennessee Experiment Station and South Fork of Forked Deer River bottoms, northwest to Spivey's and Harris's ponds and Cypress Creek bottom; mature timber bottoms 10%, young growth of river birch and gums 40%, open fields 20%, overgrown pastures 10%, mixed hardwood grove 10%, ponds 8%, feeding station 2%).—Dec. 27; 7 a.m. to 5 p.m. Clear in early a.m., then cloudy; temp. 53° to 57°; wind W, 3-7 m.p.h. Two observers together. Total hours, 20 (17 on foot, 3 by car); total miles, 76 (60 by car, 16 by foot). Turkey Vulture, 14; Black Vulture, 10; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 5; Bob-white, 1; Killdeer, 32; Wilson's Snipe, 2; Mourning Dove, 124; Barred Owl, 8; Belted Kingfisher, 1; Yellow-shafted Flicker, 23; Pileated Woodpecker, 2; Red-bellied Woodpecker, 34; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 5; Hairy Woodpecker, 4; Downy Woodpecker, 6; Horned Lark, 4; Blue Jay, 70; Am. Crow, 22; Carolina Chickadee, 23; Tufted Titmouse, 22; White-breasted Nuthatch, 1; Brown Creeper, 1; Winter Wren, 1; Bewick's Wren, 7; Carolina Wren, 28; Long-billed Marsh Wren, 1 (seen at 10 ft. with 8X glasses, white eye- and shoulder-stripes clearly noted); Mockingbird, 25; Brown Thrasher, 2; Robin, 66; Hermit Thrush, 4; Eastern Bluebird, 49; Golden-crowned Kinglet, 9; Ruby-crowned Kinglet, 1; Loggerhead Shrike, 6; Starling, 332 (300±50, 32); Myrtle Warbler, 11; English Sparrow, 182 (100±25, 82); Eastern Meadowlark, 81; Rusty Blackbird, 13; Purple Grackle, 73; Brown-headed Cowbird, 29; Cardinal, 55; Purple Finch, 1; Am. Goldfinch, 14; Eastern Towhee, 9; Savannah Sparrow, 4; Leconte's Sparrow, 2; Slate-colored Junco, 117; Field Sparrow, 10; White-crowned Sparrow, 23; White-throated Sparrow, 47; Fox Sparrow, 3; Swamp Sparrow, 1; Song Sparrow, 61. **Total,** 60 species; about 1672 individuals. (Seen in area during the week: Woodcock, 2; Barn Owl, 2; Am. Pipit, 2; Cedar Waxwing, 10.) —Mrs. W. Roever, Kilian Roever.

226. Memphis, Tenn. (1946 area but bottomland coverage reduced on account of partial flooding; wooded bottomlands 30%, deciduous woodlots including city parks 25%, airports, pastures, and old cottonfields 20%, suburban roadsides 25%). —Dec. 26; 6:30 a.m. to 4:30 p.m., coverage chiefly 7:30 a.m. to 3:30 p.m. Rain until 7:30 a.m., overcast with occasional drizzle afterwards; temp. 58° to 41°; wind 1-7 m.p.h.; muddy; water in fields. Twenty-eight observers in 4 main parties, 2 pairs, and 2 singles, the main parties breaking up at various localities worked; weather delayed start and poor visibility reduced late afternoon results. Total party-hours, 85; total party-miles, 240 (65 on foot, 175 by car). Great Blue Heron, 4; Mallard, 1; Ring-necked Duck, 4; Turkey Vulture, 9; Black Vulture, 28; Sharp-shinned Hawk, 1; Cooper's Hawk, 7; Red-tailed Hawk, 9; Red-shouldered Hawk, 7; Marsh Hawk, 3; Sparrow Hawk, 25; Bob-white, 19; Killdeer, 214 (±10); Wilson's Snipe, 33; Ring-billed Gull, 9; Mourning Dove, 5; Barred Owl, 6; Belted Kingfisher, 5; Yellow-shafted Flicker, 104; Pileated Woodpecker, 1; Red-bellied Woodpecker, 34; Red-headed Woodpecker, 9; Yellow-bellied Sapsucker, 12; Hairy Woodpecker, 8; Downy Woodpecker, 48; Eastern Phoebe, 1; Horned Lark, 26; Blue Jay, 352 (±5); Am. Crow, 36; Carolina Chickadee, 174; Tufted Titmouse, 88; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 1; Brown Creeper, 17; Winter Wren, 17; Bewick's Wren, 1; Carolina Wren, 95; Mockingbird, 117; Brown Thrasher, 30; Robin, 336 (±10); Hermit Thrush, 25; Eastern Bluebird, 47; Golden-crowned Kinglet, 51; Ruby-crowned Kinglet, 17; Am. Pipit, 50 (±5); Cedar Waxwing, 160 (±5); Loggerhead Shrike, 20; Starling, 1819 (±50); Myrtle Warbler, 139; English Sparrow, 383 (±10); Eastern Meadowlark, 248; Red-wing, 15; Purple Grackle, 13,759 (±200); Brown-headed Cowbird, 6; Cardinal, 459 (±10); Purple Finch, 9; Am. Goldfinch, 235 (±5); Eastern Towhee, 88; Savannah Sparrow, 11; Slate-colored Junco, 571 (±20); Chipping Sparrow, 1 (R.D.S.); Field Sparrow, 172 (±5); White-crowned Sparrow, 13; White-throated Sparrow, 1379 (±50); Fox Sparrow, 47; Swamp Sparrow, 61 (±6); Song Sparrow, 251 (±10); Lapland Longspur, 200 (±20). **Total,** 68 species; about 22,144 individuals. (On Dec. 27, Screech Owl, 1.)—Mr. and Mrs. Ben B. Coffey, Jr., Jimmy Allen, Mrs. Floy Barefield, Mrs. Elizabeth Barton, Robert Burton, Frederick T. Carney, Harold Clark, Mary Davant, Dr. Mack Evans, Harry Geyer, Jr., Newton Hanson, Oliver Irwin, Luther F. Keeton, Lawrence C. Kent, Charles E. McPherson, Jr., Mrs. J. H. McWhorter, Jim McWhorter, Patricia Moore, John Robertson, Alice Smith, R. Demett Smith, Jr., Mrs. M. L. Torti, Maurice Torti, Plato Tuliatos, Brother I. Vincent, Mrs. Rose Wooldridge, Alan Zeigler (Memphis Chapter, Tennessee Ornithological Society).

227. Nashville, Tenn. (south and west of city, including 85-acre Radnor Lake and surrounding wooded hills. Otter Creek road, Hobbs and Hillsboro roads, Little Harpeth River valley, Edwin Warner and Percy Warner parks, 101 Pasture, Hillwood, Bosley spring, and Bell's Bend of Cumberland River; open fields 25%, wooded pastures and park lands 25%, dense woods 10%, thickets, ditch banks, and roadsides 40%).—Dec. 26; 6 a.m. to 5:30 p.m. Overcast, visibility fairly good; temp. 52° to 58°; wind W., av. 10 m.p.h.; ground bare and wet. Seventeen observers in 4 parties. Total party-hours, 36 (30 on foot, 6 in car); total party-miles, 40 (18 on foot, 22 by car). Pied-billed Grebe, 5; Mallard, 9; Ring-necked Duck, 2; Black Vulture, 15; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 15; Bob-white, 38 (3 coveys); Am. Coot, 1; Killdeer, 108; Wilson's Snipe, 2; Mourning Dove, 83; Horned Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 57; Pileated Woodpecker, 7; Red-bellied Woodpecker, 30; Yellow-bellied Sapsucker, 12; Hairy Woodpecker, 5; Downy Woodpecker, 33; Eastern Phoebe, 1; Horned Lark, 46; Blue Jay, 24; Am. Crow, 80; Carolina Chickadee, 92; Tufted Titmouse, 41; White-breasted Nuthatch, 1; Brown Creeper, 6; Winter Wren, 2; Bewick's Wren, 4; Carolina Wren, 33; Mockingbird, 71; Brown Thrasher, 1 (rarely winters here); Robin, 10,000 (est.); Hermit Thrush, 3; Eastern Bluebird, 55; Golden-crowned Kinglet, 6; Ruby-crowned Kinglet, 1; Cedar Waxwing, 12; Loggerhead Shrike, 3; Starling, 250,000 (est.); Myrtle Warbler, 36; English Sparrow, 70; Eastern Meadowlark, 48; Rusty Blackbird, 325 (300 in 1 flock); Purple Grackle (Bronzed), 500 (est.); Brown-headed Cowbird, 3000 (est.); Cardinal, 142; Purple Finch, 10; Am. Goldfinch, 54; Eastern Towhee, 43; Savannah Sparrow, 1; Slate-colored Junco, 117; Field Sparrow, 61; White-crowned Sparrow, 19; White-throated Sparrow, 126; Fox Sparrow, 1; Swamp Sparrow, 21; Song Sparrow, 39. **Total,** 61 species; about 265,531 individuals. (The greater part of the numbers of Robins, Starlings, Grackles, and Cowbirds were at a roost in southwest suburbs of city. They were using a 3-acre deciduous woods and adjacent untrimmed privet hedgerows. After 3 nights' observations, the Robins were estimated at 10,000 and incoming flocks showed them outnumbered by the starlings about 25 to 1.)—Mr. and Mrs. B. H. Abernathy, Hearn Bradley, Louis Branscomb, Tom Butler, Albert F. Ganier (compiler), Helen M. Howell, Amelia (Mrs. F. C.) Laskey, G. R. Mayfield, George R. Mayfield, Jr., Al and Yvonne Mayfield, Don Miller, James A. Robins, Edwin and Dan Schreiber, Robert Sollmann (Nashville Chapter, Tennessee Ornithological Society).

228. Reelfoot Lake, Tenn. (essentially same area as in previous 2 years; from Gray's Camp south to Tiptonville and east around lake via Spillway and Samburg to Walnut Log, including timbered bottomlands on west, hills on east side of lake; deciduous woodland 45%, open lake 30%, roadside 15%, farmland 10%).—Dec. 26; 6:30 a.m. to 5:30 p.m. Rain in early a.m., fog and drizzle in latter part of p.m.; temp. 40° to 55°; wind N, 0-10

m.p.h. Six observers in 2 parties. Total party-hours, 22; total party-miles, 73 (56 by car, 6 by boat, 11 on foot). Pied-billed Grebe, 43; Double-crested Cormorant, 217; Great Blue Heron, 4; Canada Goose, 480 (est.); Snow Goose, 1; Blue Goose, 1 (both ad., observed at close rang—H.B., T.W., Jr.); Mallard, 256; Black Duck, 9; Gadwall, 21; Pintail, 8; Green-winged Teal, 5; Shoveller, 40; Wood Duck, 3; Ring-necked Duck, 75; Canvas-back, 61; Lesser Scaup Duck, 55; Am. Golden-eye, 7; Ruddy Duck, 1; Red-tailed Hawk, 10; Red-shouldered Hawk, 9; Bald Eagle, 17 (unusually numerous, 12 observed at once); Marsh Hawk, 2; Peregrine Falcon, 1; Sparrow Hawk, 4; Sora, 1 (observed on 2 occasions at 20 ft.—H.C., J.L.N., P.W.W.); Florida Gallinule, 1 (collected—J.L.N.); Killdeer, 3; Herring Gull, 10; Ring-billed Gull, 78; Mourning Dove, 4; Barred Owl, 9; Belted Kingfisher, 8; Yellow-shafted Flicker, 33; Pileated Woodpecker, 5; Red-bellied Woodpecker, 36; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 7; Hairy Woodpecker, 7; Downy Woodpecker, 22; Blue Jay, 33; Am. Crow, 45; Carolina Chickadee, 54; Tufted Titmouse, 26; White-breasted Nuthatch, 4; Brown Creeper, 10; Winter Wren, 6; Bewick's Wren, 1; Carolina Wren, 66; Long-billed Marsh Wren, 2; Short-billed Marsh Wren, 1; Mockingbird, 11; Robin, 29; Hermit Thrush, 2; Eastern Bluebird, 6; Golden-crowned Kinglet, 10; Ruby-crowned Kinglet, 9; Loggerhead Shrike, 12; Starling, 1750 (est.); Myrtle Warbler, 43; English Sparrow, 255; Eastern Meadowlark, 14; Red-wing, 500,000 (est.); Rusty Blackbird, 147; Purple Grackle (Bronzed), 3500 (est.); Brown-headed Cowbird, 5000 (est.); mixed blackbirds, 2,000,000 (est.); Cardinal, 153; Am. Goldfinch, 23; Slate-colored Junco, 58; Tree Sparrow, 8; Field Sparrow, 55; White-crowned Sparrow, 3; White-throated Sparrow, 78; Fox Sparrow, 33; Swamp Sparrow, 52; Song Sparrow, 56. **Total,** 75 species; about 2,513,111 individuals.—Red-wing and mixed blackbird estimates were made at points on opposite sides of the lake, both points being 8 or 10 miles away from Samburg (where last year's estimate of 2,430,000 Red-wings was obtained); thus, any possibility of duplication was eliminated. This year, on Dec. 28, an estimate was made of the Red-wings as they streamed into the saw-grass roosting area at Samburg. The same method of estimation used in making last year's count was employed (at the same vantage point), and an estimate of 2,640,000 Red-wings was obtained. This evening flocking to roost is a daily occurrence during the winter months at Reelfoot Lake, and I should be delighted to correspond with any interested skeptics. J. L. Norman, Lake Road, Dyersburg, Tenn.—Mr. and Mrs. Howard Barbig, Herbert Clarke, James L. Norman, Thomas Walker, Jr., P. W. White, Jr.

[A waterfowl count for Reelfoot National Wildlife Refuge was taken on Dec. 30 by Waldron W. Fickle and Druey E. Davis, who traveled 44 miles by motorboat in 9 hours. Their complete count follows: Canada Goose, 700; Blue Goose, 2; Mallard, 20,000; Black Duck, 4000; Gadwall, 2000; Baldpate, 100; Pintail, 500; Green-winged Teal, 100; Blue-winged Teal, 9; Shoveller, 600; Wood Duck, 2; Ring-necked Duck, 20,000; Canvas-back, 2000; Scaup Duck (sp.), 3500; Am. Golden-eye, 20; Buffle-head, 5; Ruddy Duck, 80; Am. Coot, 130,000. **Total,** 18 species; about 183,618 individuals.]

229. Birmingham, Ala. (mostly south of city; center in Mountain Brook as in 1944 and subsequent counts; Lake Purdy, Oak Mountain, Shades Valley, East Lake, Roberts Field, and intervening areas, mixed hardwood-pine woodland in varying proportions 38%, woodland borders 15%, fallow fields and pastures 15%, cultivated fields mostly standing corn and cotton 13%, pond and lake fronts 11%, suburban areas 5%, bottomland deciduous 3%).—Dec. 31; 6:30 a.m. to 5:30 p.m. Heavy overcast most of day with sun breaking out occasionally in p.m.; temp. 43° to 61° to 58°; wind E to SE, 0-20 m.p.h. (av. 11.5 m.p.h.); water levels slightly below normal. Twelve observers in 5 parties, 2 parties together in a.m. and 4 observers half day only. Total hours, 38 (36½ on foot, 1½ in car); total miles, 57 (27 on foot, 30 in car). Pied-billed Grebe, 26; Great Blue Heron, 6; Gadwall, 2; Baldpate, 2; Ring-necked Duck, 195; Lesser Scaup Duck, 54; Turkey Vulture, 8; Black Vulture, 3; Cooper's Hawk, 1; Red-tailed Hawk, 1; Red-shouldered Hawk, 6; Sparrow Hawk, 4; Bob-white, 22; Turkey, 5 (1 drove); Am. Coot, 375; Killdeer, 167; Wilson's Snipe, 6; Mourning Dove, 177; Screech Owl, 1 (found dead along road where no bird had been present earlier in day, red phase); Barred Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 30; Pileated Woodpecker, 2; Red-bellied Woodpecker, 18; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 11; Downy Woodpecker, 20; Red-cockaded Woodpecker, 3 (1 flock as usual); Eastern Phoebe, 5; Blue Jay, 63; Am. Crow, 80; Carolina Chickadee, 80; Tufted Titmouse, 39; White-breasted Nuthatch, 16; Red-breasted Nuthatch, 4 (1st Count record in 14 years although species has occurred outside circle almost annually); Brown-headed Nuthatch, 34; Brown Creeper, 12; House Wren, 1; Winter Wren, 3; Bewick's Wren, 3; Carolina Wren, 63; Mockingbird, 30; Brown Thrasher, 6; Robin, 239; Hermit Thrush, 11; Gray-checked Thrush, 1 (uniform olive-brown upper parts with no hint of rufous on head, back or tail, sides of head grayish with no prominent eye-ring; observed for several minutes at close range in wooded thicket along stream by B.E.D. and E.E., who are well aware that Hermit Thrush is the only brown thrush that is regular here in winter); Eastern Bluebird, 109; Golden-crowned Kinglet, 39; Ruby-crowned Kinglet, 88; Am. Pipit, 192; Cedar Waxwing, 79; Loggerhead Shrike, 12; Starling, 717; Orange-crowned Warbler, 1 (dull, uniformly greenish-yellow warbler, devoid of any field marks, seen in hardwoods by B.E.D. and E.E., who are thoroughly familiar with all plumages of Pine Warbler; species has wintered here on several occasions but this is 1st Count record); Myrtle Warbler, 115;

Pine Warbler, 48; Yellow-throat, 1; English Sparrow, 57; Eastern Meadowlark, 533; Red-wing, 116; Rusty Blackbird, 81; Purple Grackle (mostly Bronzed or intermediates), 540; Cardinal, 158; Purple Finch, 186 (flock of 175); Pine Siskin, 51; Am. Goldfinch, 414; Eastern Towhee, 156; Savannah Sparrow, 63; Pine-woods Sparrow, 1 (L.B.D.—1st Count record, although recorded in winter last year); Slate-colored Junco, 177; Chipping Sparrow, 188; Field Sparrow, 327; White-throated Sparrow, 300; Fox Sparrow, 7; Swamp Sparrow, 75; Song Sparrow, 134. **Total,** 76 species; 6807 individuals (all actual counts except Starling and Grackle). (Seen in area on Dec. 30, Red-headed Woodpecker, 2.) Eighteen species counted in larger numbers than ever before (14 years); however, most of those were due to our ability to put 5 parties in the field for the first time. Species especially abundant this year: Killdeer, Mourning Dove, Robin, Eastern Bluebird, Am. Pipit, Loggerhead Shrike, Eastern Meadowlark, Rusty Blackbird, Purple Finch, Am. Goldfinch, Chipping Sparrow.—Pat Chisholm, Bernard Clowdus, F. Bozeman Daniel, Blanche E. Dean, Mary Griffin Doster, Lucius B. DuBose, Elizabeth Eddy, Robert Farmer, Thomas A. Imhof, Morton H. Perry, Millard F. Prather, Robert Rieves (Birmingham Audubon Society).

230. Decatur, Ala. (Wheeler National Wildlife Refuge, Flint Island, and surroundings, through Decatur, across Tennessee River and along north shore through Mooresville to Buckeye Slough; area a 12-mile diameter circle; unmanaged sloughs 27%, sloughs managed for waterfowl 22%, shrubby woods borders 18%, deciduous bottomland 10%, fallow fields and golf course 10%, cultivated farmland 6%, open river 6%, cordgrass marsh 1%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Heavy overcast, drizzling with fog until 9 a.m.; temp. 40° to 45°; wind SE, 0-15 m.p.h.; ground bare; water open, water level in Wheeler Lake comparatively low. Seven observers in 3 parties, 2 parties joining at 1:30 p.m. Total hours, 24 (20 on foot, 4 in car); total miles, 47 (14 on foot, 33 in car). Pied-billed Grebe, 7; Double-crested Cormorant, 175; Great Blue Heron, 83 (1 flock of 32); Canada Goose, 3575; Snow Goose, 10; Blue Goose, 300; Mallard, 7000; Black Duck, 1215; Gadwall, 465; Baldpate, 490; Am. Pintail, 26; Green-winged Teal, 180; Shoveller, 15; Ring-necked Duck, 68; Canvas-back, 13; Lesser Scaup Duck, 9; Am. Golden-eye, 2; Bufflehead, 20 (only 1 ♂); Ruddy Duck, 9; Hooded Merganser, 88; Turkey Vulture, 24; Black Vulture, 48 (in roost); Cooper's Hawk, 2; Red-tailed Hawk, 7; Red-shouldered Hawk, 7; Marsh Hawk, 9; Sparrow Hawk, 4; Bob-white, 35; Am. Coot, 77; Killdeer, 275; Wilson's Snipe, 3; Least Sandpiper, 43 (all in 1 slough, apparently winters regularly here); Herring Gull, 80 (all but a few were imm.); Ring-billed Gull, 110; Mourning Dove, 150; Barred Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 37; Pileated Woodpecker, 1; Red-bellied Woodpecker, 16; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 3; Eastern Phoebe, 8; Horned Lark, 16; Blue Jay, 84; Am. Crow, 1400 (absolute minimum count); Carolina Chickadee, 20; Tufted Titmouse, 13; Brown Creeper, 2; Winter Wren, 2; Bewick's Wren, 3; Carolina Wren, 23; Short-billed Marsh Wren, 3 (all in one spot); Mockingbird, 22; Brown Thrasher, 3; Robin, 375 (several large flocks flying due south); Hermit Thrush, 4; Eastern Bluebird, 38; Golden-crowned Kinglet, 10; Ruby-crowned Kinglet, 8; Am. Pipit, 500; Cedar Waxwing, 40; Loggerhead Shrike, 13; Starling, 85; Myrtle Warbler, 3; English Sparrow, 85; Eastern Meadowlark, 200; Red-wing, 1070 (flock of 800 going to roost); Rusty Blackbird, 23; Purple Grackle, 115; Brown-headed Cowbird, 4; Cardinal, 158; Purple Finch, 20; Am. Goldfinch, 82; Eastern Towhee, 45; Savannah Sparrow, 22; Slate-colored Junco, 165; Field Sparrow, 155; White-crowned Sparrow, 10; White-throated Sparrow, 110; Fox Sparrow, 10; Swamp Sparrow, 160; Song Sparrow, 150; Lapland Longspur, 4 (very characteristic dry rattle noted, observer, T.A.I., familiar with present species and Snow Bunting from residence in New York; birds seen on freshly-plowed farms; 2nd record for State to our knowledge). **Total,** 85 species; about 19,949 individuals (species with numbers 200 or below were counted, those above estimated as close as possible). Our thanks are due John H. Sutherlin, the refuge manager, for cooperation in planning count and furnishing transportation over rough roads. (Aerial survey of Dec. 7 showed 52,000 ducks on the whole refuge. About ¼ of refuge covered on above count. There was a sharp drop in Pintail between counts.)—Ernest Byford and Henry Grammer (U.S. Fish and Wildlife Service), F. Bozeman Daniel, Lucius B. DuBose, Thomas A. Imhof, Morton H. Perry, M. F. Prather (Birmingham Audubon Society).

231. Fairfield, Ala. (Fairfield to Grasselli to Edgewater and Bayview Lake to dam; area 1 to 2 miles wide and 10 miles long from Grasselli on south to dam on north; nearest approach to area of Birmingham count is at Grasselli, 3 miles west of Oxmoor, and Fairfield, 3 miles southwest of Robert's Field; oak-pine woods 30%, cattail marsh 20%, woods borders 17%, lake side 15%, brushy fields [cotton, corn, broomsedge, and aster] 10%, residential areas and miscellaneous developed land such as cemetery 8%).—Dec. 24; 6:40 a.m. to 5:10 p.m. Clear; temp. 21° to 51° to 40°; wind NW, 5-12 m.p.h. shifting soon through N to SE, 0-8 m.p.h.; ground bare, covered with heavy hoar frost until 9 a.m. when small puddles thawed. Total hours, 10 (9 on foot, 1 in car); total miles, 38 (8 on foot, 30 in car). Pied-billed Grebe, 22; Great Blue Heron, 5; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Sparrow Hawk, 2; Virginia Rail, 5 (spending 2nd successive winter in newly formed cattail marsh); Sora, 1; Killdeer, 5; Wilson's Snipe, 1; Mourning Dove, 24 (1 flock); Barred Owl, 6; Belted Kingfisher, 4; Yellow-shafted Flicker, 18; Pileated Woodpecker, 1; Red-bellied Woodpecker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 2;

Eastern Phoebe, 1; Blue Jay, 14; Carolina Chickadee, 11; Tufted Titmouse, 17; White-breasted Nuthatch, 1; Brown Creeper, 4; Carolina Wren, 21; Long-billed Marsh Wren, 2; Mockingbird, 26; Brown Thrasher, 6; Robin, 57; Hermit Thrush, 1; Eastern Bluebird, 58 (flock of 50 feeding on french mulberry, *Callicarpa*); Golden-crowned Kinglet, 16; Ruby-crowned Kinglet, 14; Cedar Waxwing, 106; Loggerhead Shrike, 2; Starling, 305; Myrtle Warbler, 84; Pine Warbler, 28; Yellow-throat, 2; English Sparrow, 50; Eastern Meadowlark, 39; Red-wing, 445; Rusty Blackbird, 23; Grackle, 16 (local birds from past experience are intermediates, with *versicolor* predominant); Brown-headed Cowbird, 23; Cardinal, 42; Purple Finch, 20; Am. Goldfinch, 48; Eastern Towhee, 17; Savannah Sparrow, 7; Slate-colored Junco, 145; Chipping Sparrow, 41; Field Sparrow, 98; White-throated Sparrow, 69; Swamp Sparrow, 145; Song Sparrow, 89. **Total,** 56 species; 2198 individuals (all exact counts except Starling, English Sparrow, and Red-wing). (Seen in area Dec. 30, Peregrine Falcon, 1.) A roost of at least 1300 blackbirds, of species above, in the cattail marsh was broken up in early December. All but 100 of above Red-wings and all other blackbirds roosted in another much smaller cattail marsh miles away.) —Thomas A. Imhof.

232. Indianola, Miss. (same territory as for many years; town gardens and parks 10%, wooded bayou bank 40%, cotton fields and meadows 30%, city dump and old brickyard pond 10%, marshes 10%).—Dec. 30; 7 a.m. to 5:30 p.m. (sunrise to dusk). Clear; temp. 46° to 58° to 60°; no wind in a.m., W in p.m. Total hours, 13; total miles, 4½ (on foot). Black Vulture, 8; Marsh Hawk, 1; Broad-winged Hawk, 1 [no details—Ed.]; Sparrow Hawk, 3; Bob-white, 1 (heard); Killdeer, 11; Wilson's Snipe, 5; Least Sandpiper, 5; unidentified sandpiper, 1; Mourning Dove, 7; Barred Owl, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 4; Red-bellied Woodpecker, 3; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 2; Blue Jay, 20; Winter Wren, 1; Carolina Wren, 3; Mockingbird, 11; Brown Thrasher, 8; Robin, 6; Eastern Bluebird, 3; Golden-crowned Kinglet, 10; Cedar Waxwing, 13; Loggerhead Shrike, 4; Starling, 5000 (est.); Myrtle Warbler, 17; English Sparrow, 200; Meadowlark [sp.], 3; Red-wing, 500; Purple Grackle, 10,000 (est.); Brown-headed Cowbird, 1; Cardinal, 20; Purple Finch, 5; Am. Goldfinch, 15; Eastern Towhee, 2; Vesper Sparrow, 2; Chipping Sparrow, 9; Tree Sparrow, 3 (often seen, identified by dark dot on ashy breast with no other markings; flocks with other sparrows along bayou); White-crowned Sparrow, 5; White-throated Sparrow, 50; Song Sparrow, 5. **Total,** 43 species; about 15,966 individuals.—Townsend Boyer.

233. Moon Lake (Lula), Miss. (same route as in 1947; lake from shoreline drive 15%, levee 8%, narrow bayous, timbered 22%, highway and old cotton fields and pasture 10%, weedy fields 25%, wooded bottoms 20%).—Jan. 1; 7:45 a.m. to 5 p.m. Overcast with occasional drizzle and a short heavy rain; much water in fields from heavy rain of previous night; temp. 57° to 60°; wind 1-10 m.p.h. Duck hunting season ended Dec. 27; ducks reportedly in flooded timber, inaccessible at times. Twelve observers, generally in 3 parties. Total party-hours, 17; total party-miles, 90 (10 on foot, 80 by auto). Pied-billed Grebe, 3; Double-crested Cormorant, 28; Great Blue Heron, 3; Mallard 188 (±3); Black Duck, 6; Gadwall, 1; Shoveller, 7; Wood Duck, 4; Lesser Scaup Duck, 132 (±15); Buffle-head, 2; Ruddy Duck, 460 (±40); Hooded Merganser, 52 (±5); Am. Merganser, 30; Turkey Vulture, 9; Black Vulture, 112 (±6); Cooper's Hawk, 3; Red-tailed Hawk, 5; Red-shouldered Hawk, 6; Marsh Hawk, 9; Sparrow Hawk, 12; Am. Coot, 2; Killdeer, 230 (±12); Wilson's Snipe, 1; Herring Gull, 1; Ring-billed Gull, 26 (±5); Mourning Dove, 56 (±5); Belted Kingfisher, 2; Yellow-shafted Flicker, 31; Pileated Woodpecker, 1; Red-bellied Woodpecker, 23; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 4; Hairy Woodpecker, 4; Downy Woodpecker, 9; Eastern Phoebe, 4; Horned Lark, 13; Blue Jay, 53; Am. Crow, 20; Carolina Chickadee, 16; Tufted Titmouse, 3; Red-breasted Nuthatch, 2; Winter Wren, 3; Bewick's Wren, 1; Carolina Wren, 25; Mockingbird, 15; Brown Thrasher, 4; Robin, 59; Hermit Thrush, 9; Eastern Bluebird, 7; Golden-crowned Kinglet, 40; Ruby-crowned Kinglet, 20; Am. Pipit, 13; Cedar Waxwing, 6; Loggerhead Shrike, 49; Starling, 5921 (±70); Myrtle Warbler, 57; English Sparrow, 283 (±15); Eastern Meadowlark, 239 (±10); Red-wing, 1066 (±50); Purple Grackle, 8795 (±225); Brown-headed Cowbird, 603 (±60); Cardinal, 194; Purple Finch, 8; Am. Goldfinch, 28; Eastern Towhee, 2; Savannah Sparrow, 49; Leconte's Sparrow, 2; Slate-colored Junco, 36; Field Sparrow, 19; White-throated Sparrow, 227 (±15); Fox Sparrow, 17; Swamp Sparrow, 115 (±10); Song Sparrow, 151 (±10). **Total,** 73 species; about 19,637 individuals. —Mr. and Mrs. Ben B. Coffey, Jr., Mr. and Mrs. Howard Barbig, Cooper Barefield, Mrs. Floy Barefield, Herbert Clarke, Newton Hanson, James L. Norman, Alice Smith, R. Demett Smith, Jr., Alan Zeigler (Memphis Chapter, Tennessee Ornithological Society).

234. Tupelo, Miss. (same area as in 1946-8; open farmlands along U.S. 78 west and east, and Highway 6 enroute to park, and Legion Lake 30%, town with U.S. Fish Hatchery, Gum Pond, and part weedy fields nearby 30%, deciduous woods and lakes of Tombigbee State Park 25%, mixed pines and hardwoods 15%).—Dec. 24; 7 a.m. to 5 p.m. Fair; temp. 28° to 48°; calm; ground frozen at start. Two observers together. Total miles 28 (25 by car, 3 on foot). Pied-billed Grebe, 12; Great Blue Heron, 2; Mallard, 13; Gadwall, 2; Ring-necked Duck, 267 (±5); Canvas-back, 16; Ruddy Duck, 6; Turkey Vulture, 9; Black Vulture, 5; Red-tailed Hawk, 4; Marsh Hawk, 2; Sparrow Hawk, 5; Am. Coot, 5; Killdeer, 44; Wilson's Snipe, 8; Mourning Dove, 36; Belted Kingfisher, 3; Yellow-

shafted Flicker, 9; Red-bellied Woodpecker, 8; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 8; Eastern Phoebe, 1; Blue Jay, 30; Am. Crow, 8; Carolina Chickadee, 15; Tufted Titmouse, 9; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 1; Brown Creeper, 1; Winter Wren, 1; Bewick's Wren, 3; Carolina Wren, 3; Mockingbird, 10; Brown Thrasher, 2; Robin, 3; Hermit Thrush, 1; Eastern Bluebird, 24; Golden-crowned Kinglet, 15; Ruby-crowned Kinglet, 8; Am. Pipit, 4; Loggerhead Shrike, 6; Starling, 259 (±10); Black and White Warbler, 1 (good observations, 2nd mid-south count record—*see* Memphis 1941); Myrtle Warbler, 5; Pine Warbler, 3; English Sparrow, 79; Eastern Meadowlark, 159 (±7); Red-wing, 3045 (±300); Purple Grackle, 824 (±50); Brown-headed Cowbird, 16; Cardinal, 58; Purple Finch, 14; Am. Goldfinch, 10; Eastern Towhee, 15; Savannah Sparrow, 20; Slate-colored Junco, 95 (±8); Field Sparrow, 96 (±10); White-crowned Sparrow, 8; White-throated Sparrow, 48 (±5); Fox Sparrow, 10; Swamp Sparrow, 50 (±5); Song Sparrow, 54 (±6). **Total,** 64 species; about 5483 individuals.—Ben B. Coffey, Jr., R. Demett Smith, Jr.

235. Ann Arbor, Mich. (Huron River valley and adjoining areas from 6 miles northwest of town to 4 miles southeast of town, north 10 miles to Whitmore and Mud Lakes, and south 4 miles to airport; bottomland, river, and lakes 17%, deciduous woodlots 31%, coniferous plantations 7%, fields and roadsides 31%, tamarack-poison sumac swamp 6%, along railway 8%).—Dec. 29; 8 a.m. to 5:15 p.m. Clear; temp. 30° to 40°; wind N, 3-6 m.p.h.; no snow; river and lakes not frozen. Twelve observers in 4 parties. Total hours, 27 (25 on foot, 2 in car); total miles, 65 (32 on foot, 33 in car). Mallard, 43; Black Duck, 258; Gadwall, 2; Baldpate, 3; Canvas-back, 3; Scaup Duck (sp.), 2; Am. Golden-eye, 15; Am. Merganser, 6; Cooper's Hawk, 2; Red-tailed Hawk, 8; Red-shouldered Hawk, 2; Rough-legged Hawk, 3; Marsh Hawk, 2; Ring-necked Pheasant, 4; Herring Gull, 14; Ring-billed Gull, 3; Mourning Dove, 3; Horned Owl, 3; Belted Kingfisher, 2; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 19; Horned Lark, 36; Blue Jay, 60; Am. Crow, 42; Black-capped Chickadee, 47; Tufted Titmouse, 45; White-breasted Nuthatch, 24; Brown Creeper, 7; Hermit Thrush, 1; Golden-crowned Kinglet, 6; Starling, 65; English Sparrow, 220; Cardinal, 63; Purple Finch, 10; Am. Goldfinch, 43; Slate-colored Junco, 126; Tree Sparrow, 136; White-throated Sparrow, 1; Lincoln's Sparrow, 1 (seen well by several observers) [details of the identification not given—Ed.]; Song Sparrow, 7. **Total,** 42 species; about 1341 individuals.—H. L. Batts, Jean Batts, Dorothy Blanchard, Grace Blanchard, C. C. Carpenter, D. E. Delzell, W. A. Freyburger, J. D. Goodman, T. P. Haines, H. W Hann (compiler), M. E. McDonald, C. O. Owens.

236. Battle Creek, Mich. (center of town to Gull Lake; Irving Park, Kalamazoo River west of city to Gull Lake and return; Wintergreen Lake; 2 Battle Creek feeding stations; in parts of Calhoun and Kalamazoo counties; open farmland [mostly by car] 20%, wooded river and stream-banks 20%, shrubby fence growths and highway borders 20%, evergreen plantings 10%, lake front 20%, feeding stations 10%).—Dec. 25; 7:30 a.m. to 5 p.m. Cloudy; temp. 24° to 42° to 40°; wind SSE., 7-10 m.p.h. in a.m., practically none in p.m.; no snow; ice forming on small lakes after a few days of open water; Gull Lake and rivers all open. Seven observers in 2 moving parties and at 2 feeding stations. Total hours, 34; total miles, 48 (42 by car, 6 on foot). Great Blue Heron, 1 (large size and typical flight—E.M.B., Jr., L.H.W.); Canada Goose, 2665 (2500±150, 165); Mallard, 39; Black Duck, 36; Ring-necked Duck, 8; Am. Golden-eye, 78; Buffle-head, 2; Hooded Merganser, 3; Am. Coot, 3; Herring Gull, 1; Long-eared Owl, 1 (1st observation for area on Christmas count; in pines at W. K. Kellogg Bird Sanctuary—A.E.S.); Hairy Woodpecker, 7; Downy Woodpecker, 17; Blue Jay, 28; Am. Crow, 7; Black-capped Chickadee, 18; Tufted Titmouse, 5; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 2; Brown Creeper, 2; Robin, 1 (at Mrs. Nielsen's feeding station); Cedar Waxwing, 7; Starling, 6; English Sparrow, 262; Cardinal, 33; Purple Finch, 82; Am. Goldfinch, 72; Slate-colored Junco, 7; Tree Sparrow, 38; Song Sparrow, 1. **Total,** 30 species; about 3437 individuals.—Edward M. Brigham, Jr., Edward M. Brigham, 3rd, Glenn Downing, Mrs. L. C. Nielsen, Mrs. Harry J. Theis, Arthur E. Staebler, Lawrence H. Walkinshaw.

237. Bay City, Mich. (4 miles to mouth of Saginaw River, 11 miles to Zilwaukee, 15 miles to Tittabawassee River at Mapleton; open farmland 10%, town suburbs 10%, deciduous farm woodlots 20%, cattail marsh 55%, sandy lake shore line 5%).—Dec. 24; 8 a.m. to 4:30 p.m. Clear; temp. 12° to 35°; wind SW, 1-5 m.p.h.; ground frozen, nearly bare; streams open, Saginaw Bay frozen with some open spots near mouth of Saginaw River. Total miles, 50 (2 by canoe, 3 by foot, 45 by car); total hours, 8½ (2 by canoe, 2 by foot, 4½ by car). Pied-billed Grebe, 1; Mallard, 2; Black Duck, 400; Am. Golden-eye, 100; Hooded Merganser, 18; Am. Merganser, 800; Red-breasted Merganser, 2; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Sparrow Hawk, 1; Ring-necked Pheasant, 23; Am. Coot, 1; Herring Gull, 460; Ring-billed Gull, 50; Snowy Owl, 1; Downy Woodpecker, 2; Horned Lark, 22; (Northern, 2; Prairie, 20 [no discussion of how distinguished from Hoyt's—Ed.]); Blue Jay, 6; Am. Crow, 255; Black-capped Chickadee, 5; Tufted Titmouse, 4; White-breasted Nuthatch, 2; Brown Creeper, 1; Northern Shrike, 1; Starling, 38; English Sparrow, 305; Cardinal, 5; Am. Goldfinch, 2; Tree Sparrow, 20; Song Sparrow, 4; Snow Bunting, 4. **Total,** 32 species; 2538 individuals.—M. A. Wolf, E. E. Kenaga.

238. Boyne City, Mich. (to East Jordan, Charlevoix, Lake Charlevoix area, and along Lake Michigan shore for 2 miles to Boyne City; open farmland 10%, town suburbs 20%, deciduous farm woodlots 20%, spruce-cedar-birch lowlands 30%, water 20%).—Jan. 1; 8 a.m. to 4:30 p.m. Cloudy; temp. 33° to 40°; no wind; ground partially covered with 1-in. snow; all water open except south end of Lake Charlevoix. Total hours, 7½ (4½ by foot, 3 by car); total miles, 50 (44 by car, 6 by foot). Mute Swan (wild), 3; Canada Goose, 32; Mallard, 123; Black Duck, 29; Redhead, 1; Greater Scaup Duck, 47; Lesser Scaup Duck, 2; Am. Golden-eye, 166; Hooded Merganser, 2; Am. Merganser, 11; Bald Eagle, 3; Herring Gull, 466; Ring-billed Gull, 75; Downy Woodpecker, 3; Blue Jay, 3; Am. Crow, 3; Black-capped Chickadee, 7; White-breasted Nuthatch, 4; Starling, 59; English Sparrow, 163; Am. Goldfinch, 8. **Total,** 20 species; 1210 individuals.—E. E. Kenaga.

239. Detroit, Mich. (centering at 14 Mile and Lahser roads, extending to Pontiac on the north, 6 Mile Road to the south, Big Beaver to the east and Halsted Road to the west; same area covered on last 4 counts; open farm- and grassland 45%, swamp, lake shores, and stream banks 20%, conifer groves 5%, mature deciduous woodlands 2%, second-growth deciduous woodlands 16%, towns and suburbs 10%, cemeteries and gravel pits 2%).—Dec. 26; 8 a.m. to 5 p.m. Steady rain until 3:30 p.m.; temp. 41° to 42°; wind E, 8-10 m.p.h; ground bare; all streams and most lakes open. Seventy-five observers in 16 parties. Total hours, 106½ (56½ on foot, 50 by car); total miles, 693½ (91½ on foot, 602 by car). Canada Goose, 1; Mallard, 194; Black Duck, 99; Am. Golden-eye, 17; Hooded Merganser, 4; Am. Merganser, 1; Cooper's Hawk, 3; Red-tailed Hawk, 11; Red-shouldered Hawk, 1; Rough-legged Hawk, 2; Broad-winged Hawk, 1 (good look with 7x50 binoculars—N.T.K.) [details insufficient to substantiate such an improbable occurrence—Ed.]; Marsh Hawk, 2; Sparrow Hawk, 17; Bob-white, 11; Ring-necked Pheasant, 97; Mourning Dove, 77; Snowy Owl, 2; Long-eared Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 3; Yellow-bellied Sapsucker, 1 (imm., watched at close range on perforated tree); Hairy Woodpecker, 5; Downy Woodpecker, 71; Horned Lark, 2; Blue Jay, 138; Am. Crow, 77; Black-capped Chickadee, 240; Tufted Titmouse, 32; White-breasted Nuthatch, 58; Red-breasted Nuthatch, 2; Brown Creeper, 12; Golden-crowned Kinglet, 11; Ruby-crowned Kinglet, 1 (D.McC.); Cedar Waxwing, 3; shrike (sp.), 2; Starling, 407; English Sparrow, 1141 (900±250, 350); Eastern Meadowlark, 1; Cardinal, 125; Purple Finch, 18; Am. Goldfinch, 139; Slate-colored Junco, 239; Tree Sparrow, 352; Song Sparrow, 2. **Total,** 44 species; about 3627 individuals.—Lawrence Lenz, Verna Lenz, Bruce Turnbull, Carolyn Hash, Shirley Worden, Neil T. Kelley, Alice H. Kelley, Millie Reynolds, Bertha Engler, Robert Ambacher, Hazel Messner, Robert Messner, Clarence Messner, Dick Wade, Robert Carter, Robert Hutchison, Sparky Mahan, Bruce Hayes, Douglas Middleton, Oscar Noren, Evelyn Dowlding, Gloria Fasse, Louis Schnauter, Gilbert Starks, Allen Boratz, Winnifred Charge, Max Kruth, Betty Cleland, Winnifred Schilling, Daniel McGeen, Edward Cutler, Alan Walker, Marjorie Pickett, John Korando, Eleanor Knight, Helena Jessman, Don Radovich, Tenny Freemark, Jr., Eugene Lowry, Eugene McNeilage, J. E. Williams, Kenneth Sanderson, Richard Sanderson, George Hawkins, Cynthia Boyes, Frank T. Shippen, Astrid Sandberg, Kent Miller, Mrs. H. B. Woolfendon, Alice D. Miller, Ralph O'Reilly, Merle Russell, Homer Knight, Ruth Knight, William Knight, Mr. and Mrs. L. A. Danse, William Mussnig, Grant Lashbrook, Margaret Goodwin, Sharon Delaney, Glen Couse, Jim Skinner, Ed Boyes, Ann Boyes, Orvil Heft, Elaine Joyce, Malcolm Drife, Dorothy Roberts, Homer Roberts, Rima Nickell, Robert Burns, Hessel Tenhave, Charlotte Cameron, Walter P. Nickell (Detroit Audubon Society).

240. East Lansing, Mich. (Michigan State College campus, farms and woodlots; Lake Lansing, and Rose Lake to parts of Corey's Marsh, and return).—Dec. 28; 8 a.m. to 6 p.m. Fair; temp. 31° at start, 36° at return; wind light in a.m., brisk by p.m.; ground bare; lakes 40%, open. Eight observers together. Total hours, 10 (8 afoot, 2 by car); total miles, 37 (11 afoot, 26 by car). Mallard, 45; Black Duck, 35; Red-tailed Hawk, 2; Sparrow Hawk, 1; Ring-necked Pheasant, 5; Horned Owl, 1; Yellow-shafted Flicker, 2; Hairy Woodpecker, 4; Downy Woodpecker, 8; Horned Lark, 3; Blue Jay, 32; Am. Crow, 9; Black-capped Chickadee, 30; Tufted Titmouse, 12; White-breasted Nuthatch, 10; Red-breasted Nuthatch, 2; Brown Creeper, 1; Robin, 1; Starling, 11; English Sparrow, 176; Cardinal, 23; Purple Finch, 15; Am. Goldfinch, 169; Vesper Sparrow, 1; Slate-colored Junco, 65; Tree Sparrow, 11; Song Sparrow, 5: **Total,** 27 species; 679 individuals.—George J. Wallace, Don W. Douglass, N. A. McCune, H. T. Darlington, C. Ted Black, Richard H. Manville, Bruce V. Wilson, L. Claire Hulbert.

241. Imlay City, Mich. (Highway M21 to points 8 miles north and 7 miles south, extending west 8 miles from Lapeer-St. Clair county line; same area as covered last year; open farmland 25%, farm woodlots 10%, shrubby fence growths and roadside borders 50%, cattail marsh 10%, brushy hillsides 4%, feeding stations 1%).—Dec. 24; 5:30 a.m. to 12:30 p.m., 1:30 to 5:30 p.m. Snow flurries and cloudy in a.m., clear in p.m.; temp. 17° to 40°; wind WSW, 3-5 m.p.h; ground lightly covered with snow; all ponds and streams open. Six observers in 2 parties. Total hours, 11; total miles, 117 (8 on foot, 109 by car). Cooper's Hawk, 3; Red-tailed Hawk, 5; Red-shouldered Hawk, 1; Rough-legged Hawk, 2; Ruffed Grouse, 6; Ring-necked Pheasant, 33; Mourning Dove, 9; Barn Owl, 1; Screech Owl, 2; Yellow-shafted Flicker, 2; Hairy Woodpecker, 4; Downy Woodpecker, 22; Horned Lark, 25; Blue

Jay, 32; Am. Crow, 55; Black-capped Chickadee, 123; Tufted Titmouse, 3; Red-breasted Nuthatch, 14; White-breasted Nuthatch, 18; Brown Creeper, 4; Golden-crowned Kinglet, 4; Northern Shrike, 1; Starling, 148; English Sparrow, 663; Cardinal, 53; Evening Grosbeak, 11; Am. Goldfinch, 88; Slate-colored Junco, 45; Tree Sparrow, 160; Song Sparrow, 1; **Total,** 30 species; about 1538 individuals.—Dale A. Zimmerman, Ralph O'Reilly, Donald C. Dodge, Dr. and Mrs. L. M. Zimmerman, Martha A. Lengemann.

242. Kalamazoo, Mich. (a circle of 15 miles with center on Drake and West Main roads, Wolf Lake area, Ravine Road and north to Cooper, east to Comstock, Milham Park and south to Portage Center; open farmland 20%, deciduous woods 30%, marsh 40%, ponds 5%, running water 5%).—Dec. 31; 8:30 a.m. to 5:15 p.m. Cloudy in a.m., light rain thereafter; temp. 34° to 44°, wind S to SW, 5-15 m.p.h.; ground bare and unfrozen; all fresh water open except skim-ice on shallow ponds. Fifteen observers in 5 parties. Total hours, 16 (11 on foot, 5 by car); total miles, 110 (17 on foot, 93 by car). Buffle-head, 1; Turkey Vulture, 1; Ruffed Grouse, 2; Herring Gull, 1; Ring-billed Gull, 1; Mourning Dove, 13; Horned Owl, 1; Belted Kingfisher, 3; Red-bellied Woodpecker, 3; Red-headed Woodpecker, 3; Hairy Woodpecker, 7; Downy Woodpecker, 12; Blue Jay, 63; Am. Crow, 54; Black-capped Chickadee, 108; Tufted Titmouse, 12; White-breasted Nuthatch, 23; Brown Creeper, 5; Robin, 4; Golden-crowned Kinglet, 3; Starling, 197; English Sparrow, 289; Cardinal, 36; Am. Goldfinch, 23; Vesper Sparrow, 2; Slate-colored Junco, 159; Tree Sparrow, 85; Song Sparrow, 3. **Total,** 28 species; 1114 individuals.—Harold and Helen Wiles, Charles and Anita Cook, Rachel and Ruth Emerson, John Hornbeck, Charles Dann, Ray Deur, John Skillman, Carl Bacon, Marie Thompson, Charlotte and Florence Lilly, Gladys Hall (Audubon Society of Kalamazoo).

243. Muskegon, Mich. (wooded dunes, business and residential section, shore of Muskegon Lake and Lake Michigan beach).—Jan. 2; 9 a.m. to 5:30 p.m. Third day of heavy fog; humidity, 100%; precipitation .08 in.; temp. 43° to 48°; wind E, 7 m.p.h. Eleven observers together. Total hours, 8½; total miles, 20 (5 on foot, 15 by car). Mallard, 19; Black Duck, 35; Am. Golden-eye, 464; Herring Gull, 77; Horned Owl, 1; Snowy Owl, 1 (13th record for county since November); Belted Kingfisher, 1; Downy Woodpecker, 3; Blue Jay, 7; Black-capped Chickadee, 12; Starling, 9; English Sparrow, 16; Cardinal, 3; Slate-colored Junco, 7. **Total,** 14 species; 655 individuals. (Observed on Dec. 31, Bald Eagle, 1—G.W.)—Alex Andersen, Almeda Boulton, Albert, Paul, and Margaret Elliott, Roger Fitch, Kay Gillette, Dick Warren, George Wickstrom, John Wightman, Bill Zimmerman (Muskegon County Bird Club).

244. Owosso, Mich. (Shiawassee River valley and nearby areas from Henderson Park, 6 miles north of city, to Shiawasseetown, 7 miles southeast of city; open farmlands 20%, town suburbs 5%, upland deciduous woods 25%, wooded river valley 50%).—Dec. 29; 8 a.m. to 5 p.m. Cloudy, becoming clear at noon; temp. 30° to 33°; wind NE, 1-7 m.p.h.; no snow on ground; river entirely open. Two observers together. Total hours, 9 (8 on foot, 1 in car); total miles, 40 (10 on foot, 30 by car). Black Duck, 24; Cooper's Hawk, 1; Red-tailed Hawk, 1; Ring-necked Pheasant, 11; Herring Gull, 3; Belted Kingfisher, 1; Yellow-bellied Sapsucker, 1; Downy Woodpecker, 5; Blue Jay, 9; Am. Crow, 261; Black-capped Chickadee, 6; Tufted Titmouse, 5; White-breasted Nuthatch, 12; Brown Creeper, 2; Starling, 8; English Sparrow, 37; Cardinal, 30; Slate-colored Junco, 20; Tree Sparrow, 23. **Total,** 19 species; 460 individuals. (Seen in area Jan. 1: Song Sparrow, 1.)—Elizabeth Wilson, Bruce V. Wilson.

245. Vanderbilt, Mich. (Spar to Vanderbilt to Pigeon River; jack pine forest 70%, open field 20%, stream bank 10%).—Dec. 31; 10 a.m. to 5 p.m. Cloudy; temp. 30° to 42°; no wind; ground covered with 2-in. snow; streams open. Total hours, 7 (4 by foot, 3 by car); total miles, 34 (30 by car, 4 by foot). Ruffed Grouse, 3; Blue Jay, 2; Black-capped Chickadee, 4; White-breasted Nuthatch, 2; Golden-crowned Kinglet, 4; Cedar Waxwing, 7; Starling, 20; English Sparrow, 30; Purple Finch, 5; Redpoll, 304 (Common, 300; Greater, 4 [no particulars given —Ed.]); Am. Goldfinch, 50; Red Crossbill, 8; Snow Bunting, 1000. **Total,** 14 species; 1439 individuals.—M. R. Tody, J. B. Kenaga, E. E. Kenaga.

246. Bedford, Ind. (same area as covered in 1947; open fields mostly with second growth 30%, deciduous woodlands 60%, mixed conifers 5%, yards and gardens 5%).—Dec. 28; 6:45 a.m. to 5:30 p.m. Cloudy in early a.m., clearing about 9.30 a.m.; temp. 42° to 44°, wind WSW, 25-30 m.p.h. until about 3:30 p.m., then calm. Total miles, 10 (on foot). Bob-white, 29; Mourning Dove, 10; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 4; Downy Woodpecker, 8; Blue Jay, 6; Am. Crow, 4; Black-capped Chickadee, 21; Tufted Titmouse, 6; White-breasted Nuthatch, 1; Carolina Wren, 12; Robin, 1; Hermit Thrush, 1 (seen at 15 ft. with Bausch & Lomb 7X50 glasses; rufous color of tail in bright contrast to brown of back); Eastern Bluebird, 8; Starling, 37; English Sparrow, 94; Cardinal, 62; Am. Goldfinch, 25; Eastern Towhee, 3; Slate-colored Junco, 26; Tree Sparrow, 51; Song Sparrow, 1. **Total,** 22 species; 411 individuals.—Carleton Thoroman.

247. Hovey Lake State Game Preserve, Mt. Vernon, Ind. (Mt. Vernon to Hovey Lake, Hovey Lake to several small surrounding ponds to Mt. Vernon; forest edge 40%, lake 30%, abandoned fields 20%, agricultural fields 7%, deciduous woodlands 2%, residential 1%).—Dec. 29; 7:30 a.m. to

5:30 p.m. Clear; wind SSW, 2-5 m.p.h.; temp. 28° to 65°; all water open. Four observers together. Total hours, 10; total miles, 50 (7 on foot, 3 by boat, 40 by roadside observations). Great Blue Heron, 3; Canada Goose, 3500; Snow Goose, 1; Blue Goose, 5; Mallard, 70,000; Black Duck, 22,000; Baldpate, 4; Pintail, 2000; Green-winged Teal, 4; Ring-necked Duck, 200; Canvas-back, 450; Lesser Scaup Duck, 100; Am. Golden-eye, 60; Buffle-head, 2; Ruddy Duck, 4; Am. Merganser, 7; Cooper's Hawk, 1; Red-tailed Hawk, 5; Red-shouldered Hawk, 1; Bald Eagle, 1; Marsh Hawk, 14; Sparrow Hawk, 7; Am. Coot, 2; Wilson's Snipe, 2; Herring Gull, 5; Ring-billed Gull, 1; Mourning Dove, 90; Barn Owl, 1; Horned Owl, 4; Yellow-shafted Flicker, 7; Pileated Woodpecker, 3; Red-bellied Woodpecker, 18; Red-headed Woodpecker, 18; Yellow-bellied Sapsucker, 8; Hairy Woodpecker, 3; Downy Woodpecker, 10; Horned Lark, 54; Blue Jay, 6; Am. Crow, 195; Carolina Chickadee, 23; Tufted Titmouse, 24; White-breasted Nuthatch, 7; Brown Creeper, 14; Winter Wren, 1; Carolina Wren, 8; Mockingbird, 1; Hermit Thrush, 4; Eastern Bluebird, 17; Golden-crowned Kinglet, 10; Loggerhead Shrike, 1; Starling, 262; English Sparrow, 122; Eastern Meadowlark, 77; Red-wing, 24; Brown-headed Cowbird, 32; Cardinal, 23; Am. Goldfinch, 43; Eastern Towhee, 9; Slate-colored Junco, 231; Tree Sparrow, 18; Field Sparrow, 4; White-crowned Sparrow, 26; White-throated Sparrow, 3; Fox Sparrow, 6; Swamp Sparrow, 4; Song Sparrow, 29. **Total,** 66 species; about 99,819 individuals. (Seen in area Dec. 28; Shoveller, 1; Redhead, 1; Killdeer, 5; Barred Owl, 1—R.M.; Dec. 30, Hooded Merganser, 1—R.M.)—Russell Mumford, Richard Myers, L. Barrie Hunt, James B. Cope.

248. Indianapolis, Ind. (1¾ miles southwest, through center of town, 13 miles northeast, 9 miles northwest, 5 miles west, 2 miles southeast; Sewage Disposal Plant, Garfield Park, Holliday Park, along Fall Creek to Woollen's Gardens, Geist Reservoir, Irvington, Riverside Park, Butler University Campus, Bacon's Swamp, Josedale, Indian Lake; open farmland 36%, urban 3%, town suburbs 6%, lake area 33%, river area 5%, woods 4%, farm woodlots 7%, city parks 6%).—Dec. 26; 6:30 a.m. to 4:10 p.m. Heavily overcast, fog in a.m., with intermittent showers throughout day; heavy rain during night of 25-26th (water standing in fields); temp. 39° to 46°; wind negligible; very limited areas of ice on reservoir (less than 11% frozen) and rivers (trace in wide, quiet places). Twenty-five observers (4 parties, others working independently). Total hours, 56; av. time in field, 7¾ hours; total miles, 224 (178 by car, 46 on foot). Canada Goose, 214; Mallard, 1300±; Black Duck, 1100±; Gadwall, 50; Baldpate, 12; Pintail, 105; Green-winged Teal, 3; Wood Duck, 2; Lesser Scaup Duck, 8; Am. Golden-eye, 7; Buffle-head, 1; Hooded Merganser, 35; Am. Merganser, 62; Red-breasted Merganser, 5; Cooper's Hawk, 5; Red-tailed Hawk, 3; Red-shouldered Hawk, 1; Rough-legged Hawk, 3; Bald Eagle, 1; Marsh Hawk, 4; Sparrow Hawk, 11; Bob-white, 20; Ring-necked Pheasant, 1; Am. Coot, 4; Herring Gull, 3; Ring-billed Gull, 14; Mourning Dove, 224; Barred Owl, 4; Belted Kingfisher, 3; Yellow-shafted Flicker, 25; Red-bellied Woodpecker, 4; Red-headed Woodpecker, 13; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 32; Blue Jay, 54; Am. Crow, 350±; Carolina Chickadee, 55; Tufted Titmouse, 44; White-breasted Nuthatch, 13; Brown Creeper, 18; Winter Wren, 1; Carolina Wren, 8; Mockingbird, 5; Robin, 2; Eastern Bluebird, 12; Golden-crowned Kinglet, 8; Ruby-crowned Kinglet, 7; Starling, 938; Myrtle Warbler, 1; English Sparrow, 600±; Eastern Meadowlark, 8; Red-wing, 1♀ (C.K., H.C.W.); Cardinal, 174; Am. Goldfinch, 15; Eastern Towhee, 3; Slate-colored Junco, 375+; Tree Sparrow, 352; White-crowned Sparrow, 6; Swamp Sparrow, [illegible] (V.N., H.F.W.); Song Sparrow, 69. **Total,** 61 species; about 6405 individuals. (Seen in area of reservoir Dec. 24, Greater Scaup Duck, 2 [seen resting and flying in sunlight at 100 yds. with 20X scope—C.K., H.C.W.]; Pigeon Hawk 1 [seen first at about 30 yds., all characteristics clearly seen with 20X scope and 7X50 binoculars— C.K., H.C.W.]; Dec. 28, Horned Lark, 1; Jan. 2, Great Blue Heron, 2; Purple Grackle, 1.—William Barnes, Charles S. Berriman, Scott Calvert, Mildred Campbell, Ray C. Friesner, Mrs. R. J. Gasper, Mrs. John Goldthwaite, Joei W. Hadley, Edward Heinke, Charles E. Keller, Margaret R. Knox, Charles Marks, Francis McDowell, Otto and Hans Mengering, Ed Mockford, Val Nolan, Jr., Dr. and Mrs. Forest K. Paul, Dale Rice, Ward J. and Robert Rice, Henry C. West, Dorothy White, Howard F. Wright (Amos W. Butler Chapter, Indiana Audubon Society).

249. Lafayette, Ind. (15-mile diameter circle, center at top of hill of Route 52 bypass; Wabash River from mouth of Tippecanoe River to Battleground bridge and from bypass to Jordan Creek, Wildcat, Wea and Indian creeks, Cary Scout camp, Hadley's Lake, Blackbird Pond, Horticultural Farm, Springvale Cemetery, 2 marshes 6 miles west of town; creek bottom 33%, riverbottom 22%, upland deciduous woods 16%, low woods, brush, and fields 18%, pine grove 1%, town 1%, cattail marsh 6%, lake shore 3%).—Dec. 31; 4:45 a.m. to 5:15 p.m. Heavily clouded, occasional light rain after 10 a.m.; temp. 40° to 52°; wind E to SSW, 3-14 m.p.h.; bar. 30.24-30.19; ground bare; creeks and river high; creeks, ponds, and marshes open. Nineteen observers in 9 parties. Total hours, 58 (57 afoot, 1 in car); total miles, 102 (82 afoot, 20 in car). Canada Goose, 6; Mallard, 806 (750 est., 56); Black Duck, 56 (50 est., 6); Pintail, 1 (M.S.W.) Lesser Scaup Duck, 2; Am. Golden-eye, 2; Ruddy Duck, 1 (M.S.W.); waterfowl (sp.), 224; Cooper's Hawk, 3; Red-tailed Hawk, 22; Rough-legged Hawk, 14; Marsh Hawk, 15; Sparrow Hawk, 7; hawk (sp.), 11; Bob-white, 49; Ring-necked Pheasant, 1; Am. Coot, 3 (R.H., I.W.B.); Killdeer, 1; Herring Gull, 9; Rock Dove, 136 (barely tolerated or persecuted in town and country); Mourning Dove, 281; Barn Owl, 2; Screech Owl, 1;

Horned Owl, 5; Long-eared Owl, 18; Short-eared Owl, 4; Belted Kingfisher, 6; Yellow-shafted Flicker, 17; Red-bellied Woodpecker, 32; Red-headed Woodpecker, 1; Hairy Woodpecker, 5; Downy Woodpecker, 140; Horned Lark, 47; Blue Jay, 83; Am. Crow, 538; Black-capped Chickadee, 89; Tufted Titmouse, 119; White-breasted Nuthatch, 23; Brown Creeper, 31; Carolina Wren, 25; Robin, 3; Hermit Thrush, 1 (present for a month—D.E.S.); Eastern Bluebird, 5; Golden-crowned Kinglet, 17; Starling, 1240 (1150 est., 90); English Sparrow, 961 (560 est., 401); Eastern Meadowlark, 25; Purple Grackle (Bronzed), 1; Cardinal, 137; Purple Finch, 2; Am. Goldfinch, 44; Slate-colored Junco, 318; Tree Sparrow, 237; Field Sparrow, 35 (single flock, clear breast, pink bill, and small size—M.D.); Swamp Sparrow, 2 (I.W.B.); Song Sparrow, 53; Lapland Longspur, 1 (I.W.B.). **Total,** 55 species; about 5683 individuals.—Henrietta Ball, A. K. Branham, Irving W. Burr, Ralph Caldwell, R. C. Corley, Jr., Karleton Crain, Marvin DeJonge, G. H. and Richard Graves, Ross Horrall, Charles M. Kirkpatrick, Nobel and Richard Kizer, Robert Pedigo, Dale Samson, Don E. Stullken, J. L. Van Camp, Merritt S. Webster, Roy L. Whistler.

250. Michigan City, Ind. (Sauk Trails Scout Camp; Indiana Dunes State Park; Michigan City harbor area and lake shore for 3 miles west of Michigan City; brushy creek banks 25%, lake shore 40%, dry deciduous woods 5%, swamp and low wet woodland 30%).—Dec. 31; 7 a.m. to 4:30 p.m. Cloudy, with light to moderately heavy rain from 11 a.m. on; temp. 38° to 46°; no wind; ground bare; all water unfrozen. Three observers, together half of time, 2 or 3 parties rest of time. Total hours, 14 (13 on foot, 1 in car); total miles, 55 (42 by car, 13 on foot). Lesser Scaup Duck, 1; Am. Golden-eye, 210; Buffle-head, 88; Old-squaw, 6; Am. Merganser, 19; Red-breasted Merganser, 2; Ring-necked Pheasant, 1; Herring Gull, 53; Ring-billed Gull, 46; unidentified gulls (Herring and Ring-billed), 1600 (est.); Bonaparte's Gull, 650 (est.); Rock Dove, 9 (considered wild); Hairy Woodpecker, 2; Downy Woodpecker, 10; Blue Jay, 48; Am. Crow, 24; Black-capped Chickadee, 42; Tufted Titmouse, 26; White-breasted Nuthatch, 11; Robin, 1; Starling, 4; English Sparrow, 48; Red-wing, 5; blackbirds (Red-wings?), 220; Cardinal, 34; Purple Finch, 37; Am. Goldfinch, 8; Slate-colored Junco, 63; Tree Sparrow, 17; Song Sparrow, 2. **Total,** 28 species; about 3287 individuals.—Hubert Davis, Marvin Davis, Richard Phillips.

251. New Castle, Ind. (4 miles north, 4 miles south, 2 miles west, including woods and fields near Memorial Park and Indiana Village of Epileptics, Blue River, wooded residential area; deciduous woodlots 31%, low woods and brush-lined creek banks 45%, cultivated fields 20%, city area 1%, lake and ponds 3%).—Dec. 27; 7:20 a.m. to 4:30 p.m. Cloudy; temp. 36° to 47°; wind SE, 15-20 m.p.h.; ponds and creeks open; ground not frozen. Fifteen observers in 4 parties. Total hours, 18¾ (on foot); total miles, 19. Mallard, 120; Black Duck, 11; Gadwall, 2; Pintail, 1; Green-winged Teal, 1; Ruddy Duck, 1; Turkey Vulture, 3; Cooper's Hawk, 1; Red-tailed Hawk, 1; Marsh Hawk, 3; Bob-white, 5; Mourning Dove, 54; Belted Kingfisher, 1; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 4; Hairy Woodpecker, 5; Downy Woodpecker, 42; Blue Jay, 31; Am. Crow, 690; Carolina Chickadee, 100; Tufted Titmouse, 36; White-breasted Nuthatch, 15; Brown Creeper, 1; Carolina Wren, 2; Eastern Bluebird, 2; Starling, 314; English Sparrow, 153; Eastern Meadowlark, 2; Red-wing, 4; Cardinal, 85; Purple Finch, 5; Am. Goldfinch, 21; Slate-colored Junco, 65; Tree Sparrow, 94; Song Sparrow, 76. **Total,** 35 species; 1952 individuals. (Seen in area during count period: Canada Goose, 50, Dec. 26; Screech Owl, 2, Dec. 26, and Dec. 28; Robin, 1 on Dec. 25, 2 on Dec. 28.)—Marilyn Beckett, Arthur Branham, Beverly Brenner, Mary Culp, Carl Davis, Phil Evans, Randall Fisher, Gene Harding, Jane Ann Jennings, Sue Meadows, Bob Rinehart, Bob Usher, Freda Wilt, Kelly Wise, Marjorie Tapscott (High School Bird Club, sponsor).

252. Northern Porter County, Ind. (4 miles along Lake Michigan shore, ¼-mile along Burns' Ditch, 4 miles among permanent dunes, ½ mile in rural suburb, ½ mile along swamp, ½ mile along U.S. Highway 12; Lake Michigan shore 50%, deciduous woods 25%, swampland 10%, highway fringe 5%, lawns and shrubs 5%, river bank 5%).—Jan. 2; 8 a.m. to 4 p.m. Cloudy, steady rain after 12:30 p.m.; temp. 43° to 48°; wind S, 8 m.p.h. Total hours, 8; total miles, 28 (8 on foot, 20 by car). Horned Grebe, 11; Lesser Scaup Duck, 1 (seen at 100 ft.; purple gloss on head, and wing mark noted); Am. Golden-eye, 300+; Old-squaw, 8; Red-tailed Hawk, 1; Herring Gull, 100; Ring-billed Gull, 200; Bonaparte's Gull, 55; Snowy Owl, 1 (present since Nov. 12); Downy Woodpecker, 1; Blue Jay, 6; Am. Crow, 3; Starling, 2; English Sparrow, 100+; Cardinal, 2; Slate-colored Junco, 25; Tree Sparrow, 50. **Total,** 17 species; 866 individuals. (Seen in area Dec. 26, Golden-crowned Kinglet, White-winged Scoter; Jan. 1, Snow Bunting, chickadee [sp.]; Tufted Titmouse, Ring-necked Pheasant, White-breasted Nuthatch, Rusty Blackbird [this species is seen all winter in Porter and Lake counties].)—Raymond Grow.

253. Richmond, Ind. (Quaker Hill, Conservation Park, Clear Creek, Centerville Airport; forest edge 65%, marsh 15%, deciduous woodlands 5%, abandoned fields 10%, agricultural fields 5%).—Dec. 26; 8:45 a.m. to 4:15 p.m. Heavy rain in a.m., heavily overcast in p.m. with intermittent showers; temp. 44° to 46°; wind SW, 5-10 m.p.h.; ground clear; lake, stream, and river clear. Five observers in 2 parties. Total party-hours, 9½; total miles, 8½. Sparrow Hawk, 1; Mourning Dove, 26; Barred Owl, 1; Short-eared Owl, 3; Belted Kingfisher, 4; Yellow-shafted Flicker, 5; Red-bellied Woodpecker, 3; Downy Woodpecker, 21; Horned Lark, 10; Blue Jay, 15; Am. Crow, 43; Carolina Chickadee, 73;

Tufted Titmouse, 74; White-breasted Nuthatch, 7; Brown Creeper, 4; Winter Wren, 1; Carolina Wren, 9; Golden-crowned Kinglet, 15; Starling, 35; English Sparrow, 166; Eastern Meadowlark, 55; Brown-headed Cowbird, 2; Cardinal, 113; Purple Finch, 16; Pine Siskin, 25; Am. Goldfinch, 14; Slate-colored Junco, 131; Tree Sparrow, 147; Field Sparrow, 2; White-crowned Sparrow, 1; Swamp Sparrow, 1; Song Sparrow, 76. **Total,** 32 species; 1099 individuals. (Robin seen in area Dec. 28, L.B.H.)—James B. Cope, Marie Curtis, Ralph Curtis, Mr. and Mrs. Clarence Snow (Richmond Audubon and Nature Club).

254. South Bend, Ind. (same area as in previous counts); deciduous woods 40%, marshland 20%, open farmland 25%, open river 10%, cedar and spruce groves 5%).—Dec. 26; dawn to dusk. Overcast with steady rain until noon, intermittent rain rest of day; temp. 34° to 40°; wind 0 to SW, 4 m.p.h.; no snow on ground; rivers and creeks open, lakes frozen with some water standing on ice. Fourteen observers in 5 parties. Total hours, 27½ (on foot); total miles, 32 (on foot). Mallard, 33; Black Duck, 11; Shoveller, 1; Lesser Scaup Duck, 2; Am. Golden-eye, 62; Cooper's Hawk, 1; Red-tailed Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 5; Bob-white, 1; Am. Coot, 1; Herring Gull, 76; Mourning Dove, 50; Screech Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 2; Red-headed Woodpecker, 5; Hairy Woodpecker, 2; Downy Woodpecker, 24; Blue Jay, 60; Am. Crow, 534; Black-capped Chickadee, 32; Tufted Titmouse, 40; White-breasted Nuthatch, 34; Red-breasted Nuthatch, 5; Brown Creeper, 7; Robin, 3; Golden-crowned Kinglet, 2; Starling, 280; English Sparrow, 1149; Eastern Meadowlark, 4; Cardinal, 47; Am. Goldfinch, 9; Slate-colored Junco, 202; Tree Sparrow, 65; Swamp Sparrow, 3; Song Sparrow, 3; Snow Bunting, 1. **Total,** 38 species; about 2763 individuals.—Charles Meek, Dorothy Meek, Janet Kochanowski, Mary DuShane, Robert Nuner, Jack Munsee, Charles Metzger, Ural Coleman, Brother Edwin, C.S.C., M. Dale Harbaugh, Elmer Rodgers, Hugh Woolverton, John Pine, C. K. Barnes (South Bend Audubon Society).

255. Bird Haven Sanctuary (Richland Co.), Ill. (from Bird Haven 5 miles north, east, west, and 4 miles south, deciduous forests of Bird Haven, park and streets of Olney, Weber and Vernor lakes; open farmland 65%, deciduous forests 25%, park and streets of Olney 5%, lakes 5%).—Dec. 28; 7:45 a.m. to 5:15 p.m. Clear; mild; open water. Four observers in 2 parties until 2 p.m., 1 party rest of time. Total hours, 15 (8 by car, 7 by foot); total miles, 46 (38 by car, 8 on foot). Red-tailed Hawk, 1; Red-shouldered Hawk, 8; Marsh Hawk, 2; Sparrow Hawk, 11; Mourning Dove, 37; Barred Owl, 1; Yellow-shafted Flicker, 10; Red-bellied Woodpecker, 6; Red-headed Woodpecker, 1; Hairy Woodpecker, 3; Downy Woodpecker, 13; Horned Lark, 16; Blue Jay, 57; Am. Crow, 26; Carolina Chickadee, 22; Tufted Titmouse, 20; White-breasted Nuthatch, 4; Brown Creeper, 2; Carolina Wren, 13; Mockingbird, 9; Eastern Bluebird, 34; Golden-crowned Kinglet, 1; Northern Shrike, 1; Starling, 214; English Sparrow, 152; Eastern Meadowlark, 20; Cardinal, 60; Purple Finch, 4; Am. Goldfinch, 13; Slate-colored Junco, 185; Am. Tree Sparrow, 104; Song Sparrow, 6. **Total,** 32 species; 1056 individuals. (Seen in area Dec. 27: Bob-white, 12.)—Mrs. Chester Scherer, Mrs. Howard Shaw, Pearl Stine, Perna M. Stine.

256. Champaign-Urbana, Ill. (Sangamon River near White Heath, Van Winkle and Trelease Woods, Busey Pasture, intermediate farmland; forest 40%, shrubby fields and forest-edge 30%, open country 30%).—Dec. 26; 8 a.m. to 4 p.m. Heavy overcast, fine mist in a.m.; temp. 36° to 44°; calm; ground mostly bare, high water on flood-plain. Ten observers (4 in 2 parties in a.m., 9 in 2 parties in p.m.) Total party-hours, 8¾ (on foot); total party-miles, 50 (15 on foot, 35 by car). Red-tailed Hawk, 4+; Red-shouldered Hawk, 1; Rough-legged Hawk, 1+; Marsh Hawk, 2; Sparrow Hawk, 2; Bob-white, 16 (2 coveys); Ring-necked Pheasant, 4; Mourning Dove, 50; Barred Owl, 1; Yellow-shafted Flicker, 10; Red-bellied Woodpecker, 8; Red-headed Woodpecker, 2; Hairy Woodpecker, 7; Downy Woodpecker, 27; Blue Jay, 19; Am. Crow, 65; Black-capped Chickadee, 14; Tufted Titmouse, 26; White-breasted Nuthatch, 6; Brown Creeper, 5; Carolina Wren, 10; Starling, 1800; English Sparrow, 170; Red-wing, 2; Rusty Blackbird, 20; Brown-headed Cowbird, 150; Cardinal, 39; Purple Finch, 15; Am. Goldfinch, 22; Slate-colored Junco, 105; Am. Tree Sparrow, 190; White-throated Sparrow, 1. **Total,** 32 species; about 2794 individuals.—Don V. Duncan, Dr. and Mrs. S. C. Kendeigh, W. M. Luce, Mr. and Mrs. L. L. Steimley, J. Z. Van Winkle, H. R. Wanless, Mr. and Mrs. E. S. Warrick.

257. Chautauqua National Wildlife Refuge, Havana (Mason Co.), Ill. (Refuge open waters and levees by boat; Quiver Lake and Creek by foot along shore line 40%, marsh 30%, bluff timbers 20%, agricultural lands 10%).—Jan. 2; 7 a.m. to 4:30 p.m. Cloudy, several light drizzles; temp. 45° to 62°; wind SW, 3-8 m.p.h.; all water open. Total hours, 9; total miles, 32 (6 on foot, 6 by boat, 20 by car). Great Blue Heron, 5; Canada Goose, 2100; Snow Goose, 300; Blue Goose, 900; Mallard, 155,000; Black Duck, 8000; Blue-winged Teal, 6 (cripples); Wood Duck, 9; Redhead, 60; Canvas-back, 14; Scaup Duck [sp.], 300; Am. Golden-eye, 8; Goshawk, 5 (Sharp-shinned and Cooper's Hawks known to be present, but not observed on day of count) [details of Goshawk identifications not given; such a high concentration of this species seems quite unlikely in view of the very low total for the rest of the U.S.—Ed.]; Red-tailed Hawk, 3; Broad-winged Hawk, 2 [no particulars given—Ed.]; Rough-legged Hawk, 1; Bald Eagle, 28 (11 ad., 17 juv.); Marsh Hawk, 4; Peregrine Falcon, 1; Sparrow Hawk, 3; Bob-white, 37; Ring-necked Pheasant, 2; Am. Coot, 6; Ring-billed Gull, 86; Mourning Dove,

180; Screech Owl, 3; Horned Owl, 1; Snowy Owl, 1 (1st one observed since 1943); Red-bellied Woodpecker, 14; Red-headed Woodpecker, 20; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 2; Blue Jay, 18; Am. Crow, 40; Black-capped Chickadee, 48; Tufted Titmouse, 30; White-breasted Nuthatch, 12; Starling, 260; Cardinal, 86; English Sparrow, 80; Slate-colored Junco, 200; Tree Sparrow, 160. **Total,** 42 species; about 168,038 individuals.—Louis H. Ellebrecht.

258. Chicago, Ill. (15-mile diameter circle centering at Touhy and Lincoln Aves., Chicago; lake front from Belmont Harbor north to Tower Road, Graceland, Rosehill, Irving Park Blvd., and Memorial Pk. Cemeteries, Chicago River Forest Preserves from Foster Ave. north to Tower Rd., Des Plaines River Forest Preserves from Belmont Ave. north to Dempster St.; deciduous river woods 45%, lake front and harbors 22%, feeding stations 7%, cemeteries 7%, city parks 6%, open fields 6%, clay and gravel pits 4%, golf courses 2%, drainage canal 1%).—Dec. 28; 7 a.m. to 4:30 p.m. Cloudy in early a.m., clear by noon; temp 24° to 42°; wind SW, 10-15 m.p.h.; ground bare; water open. Eighteen observers in 5 parties and at 1 feeder. Total hours, 47 (2 by car, 43 on foot, 2 at feeder); total miles, 57 (19 by car, 38 on foot). Mallard, 80; Black Duck, 3; Lesser Scaup Duck, 26; Am. Golden-eye, 943; Buffle-head, 1; Old-squaw, 345; Hooded Merganser, 1; Am. Merganser, 139; Red-breasted Merganser, 531; Cooper's Hawk, 1; Red-tailed Hawk, 2; Red-shouldered Hawk, 3; Peregrine Falcon, 1 (large falcon shape, heavy mustache marks observed at close range—R.N.L.); Sparrow Hawk, 8; Ring-necked Pheasant, 71; Herring Gull, 2491; Ring-billed Gull, 12; Bonaparte's Gull, 72; Snowy Owl, 1; Long-eared Owl, 1; Hairy Woodpecker, 9; Downy Woodpecker, 29; Blue Jay, 6; Am. Crow, 145; Black-capped Chickadee, 97; Tufted Titmouse, 5; White-breasted Nuthatch, 4; Red-breasted Nuthatch, 1; Brown Creeper, 14; Carolina Wren, 2; Brown Thrasher, 1; Robin, 3; Golden-crowned Kinglet, 6; Starling, 606; English Sparrow, 634; Cardinal, 45; Purple Finch, 18; Am. Goldfinch, 4; Slate-colored Junco, 168; Tree Sparrow, 100; White-throated Sparrow, 2; Swamp Sparrow, 1; Song Sparrow, 9. **Total,** 43 species; 6641 individuals. The Snowy Owl, Brown Thrasher, Carolina Wren, Swamp, and White-throated Sparrows have been seen in Lincoln Park throughout December by various observers. (Seen in count area Dec. 23. Arctic Three-toed Woodpecker, 1 ♂ observed at close range with 7X50 binoculars, yellow crown patch, ladder sides, and black back noted.—J.J.C., J.F.H., Howard Dean; Dec. 24, Snow Bunting, 7).—Mrs. Amy Baldwin, Bill Bassel, Mrs. J. H. Buchanan, Mrs. Reba Campbell, Jerome J. Carroll, Mrs. W. G. DuMont, Joseph F. Healy, Mr. and Mrs. John Helmer, Mrs. Bertha Huxford, Richard N. Lamermayer, Harold Lenz, Norman Lerch, Mr. and Mrs. Russel L. Mannette, Janet McGovern, Mrs. Paul A Stephenson, Dick Zusi (Chicago Ornithological Society, Evanston Bird Club).

259. Danville, Ill. (Fairmount Quarry to Kickapoo State Park to Lake Vermilion; ponds and woods of quarry and strip coal mines 50%, deciduous hardwood forest 20%, wooded river bottom 20%, open fields and farms 10%).—Dec. 29; 8 a.m. to 4 p.m. Clear; temp. 32° to 51° to 45°; wind SW to SE, 1-7 m.p.h.; ponds frozen over but less than 1 inch, streams open; ground frozen to several inches at start, thawed rapidly. Five observers in 1 or 2 parties. Total hours, 11 (3 in car, 8 on foot); total miles, 52 (40 by car, 12 by foot). Mallard, 150; Black Duck, 50; Red-breasted Merganser, 4; Sharp-shinned Hawk, 1; Red-tailed Hawk, 2; Rough-legged Hawk, 1; Sparrow Hawk, 3; Mourning Dove, 45; Belted Kingfisher, 3; Yellow-shafted Flicker, 4; Red-bellied Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 5; Horned Lark, 50; Blue Jay, 3; Am. Crow, 500 (est.); Black-capped Chickadee, 8; Tufted Titmouse, 12; Carolina Wren, 2; Robin, 2; Hermit Thrush, 1; Eastern Bluebird, 14; Starling, 200 (est.); English Sparrow, 30; Eastern Meadowlark, 6; Cardinal, 24; Am. Goldfinch, 6; Slate-colored Junco, 75; Tree Sparrow, 90; Song Sparrow, 12; Lapland Longspur, 14. **Total,** 31 species; about 1320 individuals.—Steven Emerson, Carolyn V. Mann, John F. Mann, Al Olsen, George Willms.

260. East St. Louis, Ill. (Horseshoe Lake and surrounding fields; lakes 60%, open fields 25%, marshes 10%, deciduous woods 5%).—Dec. 24; 9 a.m. to 5 p.m. Clear; temp. 28° to 40°; wind SE to N, 2-10 m.p.h.; ground bare and frozen; lakes 25% frozen. Four observers in 2 parties. Total miles, 14 (on foot). Horned Grebe, 1; Pied-billed Grebe, 1 (E.H., E.W.); Mallard, 420; Black Duck, 45; Pintail, 1; Green-winged Teal, 12; Blue-winged Teal, 1 (observed flying and sitting at close range in good light; also had cresent!—W. B., Jr.); Redhead, 1; Canvas-back, 150; Lesser Scaup Duck, 75; Am. Golden-eye, 27; Ruddy Duck, 32; Hooded Merganser, 2; Am. Merganser, 39; Cooper's Hawk, 1; Red-shouldered Hawk, 2; Rough-legged Hawk, 1; Sparrow Hawk, 1; Am. Coot, 85; Herring Gull, 75; Ring-billed Gull, 553; Rock Dove, 13 (living wild on Mississippi River bridges); Barred Owl, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 4; Red-headed Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 10; Horned Lark, 77 (Northern, 2—W.B., Jr., N.S.; Prairie [or Hoyt's—Ed.], 75); Blue Jay, 8; Am. Crow, 105; Black-capped Chickadee [no details—Ed.], 8; Tufted Titmouse, 6; Brown Creeper, 4; Carolina Wren, 7; Mockingbird, 3; Eastern Bluebird, 1; Starling, 80; English Sparrow, 250; European Tree Sparrow, 10; Eastern Meadowlark, 1; Red-wing, 160; Rusty Blackbird, 3; Cardinal, 35; Am. Goldfinch, 15; Slate-colored Junco, 21; Am. Tree Sparrow, 46; White-throated Sparrow, 2; Swamp Sparrow, 28; Song Sparrow, 31; Lapland Longspur, 250 (observed at close range in good sunlight by all members). **Total,** 52 species (1 additional subspecies); 2724 individuals.—William Bremer, Jr., Edward Hick, N. Short, E. Wilhelm.

[James E. Comfort made an 8-hour count in the same area on Dec. 30 and recorded the following additional species: Ring-necked Duck, 7; White-crowned Sparrow, 3; Fox Sparrow, 2. He also obtained a high count of 376 European Tree Sparrows. **Total,** 36 species; 1167 individuals.]

261. Horseshoe Lake Game Refuge (Alexander Co.), Ill. (a rough ellipse about 15 miles long and 5 miles wide, north to Gale on Mississippi River and south to southern tip of Horseshoe Lake; cultivated fields 50%, deciduous and cypress woods and thickets 25%, lake and other water 25%).—Dec. 29; 7 a.m. to 4 p.m. Clear; temp. 29° to 57°; wind S, 1-3 m.p.h.; ground bare; water open. Four observers in 2 parties. Total hours, 18 (14 on foot, 4 in car); total miles, 39 (13 on foot, 26 in car). Double-crested Carmorant, 58; Great Blue Heron, 4; Canada Goose, 50,000 (est. by attendant at refuge); Mallard, 1000 (est.); Black Duck, 82; Baldpate, 2; Pintail, 47; Shoveller, 3; Wood Duck, 1; Black Vulture, 6; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Bald Eagle, 4; Golden Eagle, 1 (compared with imm. Bald Eagles; upper two-thirds of tail white, sharply separated from the wide dark band at tip; base of primaries white; nape light-coppery; bird appearing and suddenly attacking a group of Mallards and Pintails and pursuing them until startled by observers—W.H., R.B.); Sparrow Hawk, 3; Killdeer, 1; Herring Gull, 2; Mourning Dove, 1; Belted Kingfisher, 2; Yellow-shafted Flicker, 7; Pileated Woodpecker, 2; Red-bellied Woodpecker, 9; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 10; Horned Lark, 1; Blue Jay, 27; Am. Crow, 18; Black-capped Chickadee, 1; Carolina Chickadee, 54 (est); Tufted Titmouse, 26; White-breasted Nuthatch, 3; Brown Creeper, 2; Winter Wren, 1; Carolina Wren, 16; Mockingbird, 1; Eastern Bluebird, 9; Golden-crowned Kinglet, 12; Cedar Waxwing, 11; Loggerhead Shrike, 1; Starling, 24; English Sparrow, 15; Eastern Meadowlark, 18; Red-wing, 8; Rusty Blackbird, 45; Cardinal, 96; Am. Goldfinch, 12; Eastern Towhee, 1; Slate-colored Junco, 36; Field Sparrow, 41; White-crowned Sparrow, 2; White-throated Sparrow, 15; Fox Sparrow, 1; Swamp Sparrow, 2; Song Sparrow, 28. **Total,** 56 species; about 51,783 individuals.—Richard Brewer, Thomas Collins, William Hardy, Gene Pope.

262. Joliet, Ill. (5 miles east of town to Pilcher Park area; 12 miles southwest to old towpath, along Des Plaines River, and old Illinois and Michigan Canal).—Dec. 26; 7 a.m. to 3:30 p.m. Snow in a.m., overcast in p.m.; temp. 33° to 36° to 31°; wind W, 0-1 m.p.h.; ground covered with ½-in. snow; ponds and backwaters frozen, main streams open. Six observers mostly in 1 party. Total hours, 10 (6 on foot, 4 by car); total miles, 73 (65 by car, 8 on foot). Great Blue Heron, 1; Mallard, 5; Gadwall, 20; Pintail, 4; Redhead, 2; Ring-necked Duck, 4; Lesser Scaup Duck, 29; Am. Golden-eye, 5; Ruddy Duck, 3; Hooded Merganser, 2; Am. Merganser, 10; Red-shouldered Hawk, 1; Rough-legged Hawk, 2; Marsh Hawk, 1; Ring-necked Pheasant, 1; Am. Coot, 1; Herring Gull, 3; Ring-billed gull, 10; Mourning Dove, 2; Yellow-shafted Flicker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 8; Blue Jay, 12; Am. Crow, 600 (est.); Black-capped Chickadee, 16; Tufted Titmouse, 15; White-breasted Nuthatch, 1; Brown Creeper, 1; Carolina Wren, 1; Golden-crowned Kinglet, 5; Starling, 197; English Sparrow, 315; Cardinal, 9; Am. Goldfinch, 2; Slate-colored Junco, 60; Tree Sparrow, 27; Song Sparrow, 6. **Total,** 37 species; approximately 1385 individuals.—Mrs. E. D. Collins, Gayle Hufford, William Hughes, Clarence D. Stallman, Ben H. Wison, Jr., George H. Woodruff (Joliet Audubon Society).

263. Morrison (Whiteside Co.), Ill. (timbered pasture 70%, farmland 30%).—Dec. 26; 9 a.m. to 4 p.m. Clear; temp. 22° to 30°; wind NW, 1-7 m.p.h.; no snow. Total miles, 7 (on foot). Red-tailed Hawk, 1; Marsh Hawk, 1; Bob-white, 26; Mourning Dove, 1; Screech Owl, 1; Red-bellied Woodpecker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 2; Horned Lark, 14; Blue Jay, 6; Am. Crow, 3; Black-capped Chickadee, 6; Tufted Titmouse, 4; White-breasted Nuthatch, 3; Golden-crowned Kinglet, 1; Starling, 16; English Sparrow, 80; Cardinal, 5; Slate-colored Junco, 14. **Total,** 19 species; 189 individuals.—John C. Aggen.

264. Murphysboro, Ill. (15-mile diameter, with Murphysboro as center; Carbondale Reservoir Murphysboro Airport, Murphysboro and surrounding territory, Hickory Ridge area; our eastern boundary, the breadth of Carbondale; deciduous woods and thickets 30%, lakes, rivers, and ponds 30%, fields and farmlands 25%, miscellaneous 15%).—Dec. 30; 6 a.m. to 4:30 p.m. Clear; temp. 29° to 62°; wind SW, 0-3 m.p.h.; ground bare; water open. Three observers in 2 parties. Total hours, 20 (13 on foot, 7 in car); Total miles, 87 (19 on foot, 68 in car). Pied-billed Grebe, 1; Mallard, 209; Black Duck, 14; Pintail, 1; Shoveller, 3; Redhead, 12; Ring-necked Duck, 165 (est.); Canvas-back, 3; Lesser Scaup Duck, 35; Am. Golden-eye, 29; Red-tailed Hawk, 2; Red-shouldered Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 11; Bob-white, 9; Killdeer, 9; Wilson's Snipe, 5; Herring Gull, 2; Ring-billed Gull, 1; Mourning Dove, 3; Barred Owl, 3; Belted Kingfisher, 3; Yellow-shafted Flicker, 16; Pileated Woodpecker, 3; Red-bellied Woodpecker, 14; Red-headed Woodpecker, 24; Hairy Woodpecker, 1; Downy Woodpecker, 15; Horned Lark, 1; Blue Jay, 69; Am. Crow, 43; Black-capped Chickadee, 3; Carolina Chickadee, 64; Tufted Titmouse, 42; White-breasted Nuthatch, 8; Brown Creeper, 6; Bewick's Wren, 2; Carolina Wren, 19; Mockingbird, 10; Robin, 3; Hermit Thrush, 1; Eastern Bluebird, 18; Golden-crowned Kinglet, 18; Loggerhead Shrike, 1; Starling, 4000 (est); English Sparrow, 420 (est.); Eastern Meadowlark, 33; Red-wing, 500±; Rusty Blackbird, 37; Purple Grackle (Bronzed), 3300 (est., a remark-

able and unexpected count); Brown-headed Cowbird, 900 (est.); Cardinal, 82; Purple Finch, 7; Am. Goldfinch, 7; Slate-colored Junco, 100; Tree Sparrow, 33; Field Sparrow, 9; White-crowned Sparrow, 2; White-throated Sparrow, 6; Fox Sparrow, 1; Swamp Sparrow, 2; Song Sparrow, 30. **Total,** 62 species; about 10,374 individuals. (Seen in area during time of count: Canada Goose, 95 [est.]; Cooper's Hawk, 1; Yellow-bellied Sapsucker, 1; Winter Wren, 2; Cedar Waxwing, 8.)—Richard Brewer, Thomas Collins, William Hardy.

265. Pere Marquette Park, Ill. (Pere Marquette State Park as center, area covered wildlife refuge in Calhoun County, Illinois River from Lind's Wood to Grafton; shallow water 10%, marshes and swamps 50%, hollows 20%, highlands 10%).—Dec. 26; dawn to dusk. Rain to mist, ceiling 400 ft., lifting in p.m.; temp. 39° to 36°; wind W. light to calm; ground bare. Eighteen observers in 4 parties. Total miles, 130 (115 by car, 15 by foot); total hours, 106 (76 by foot, 30 by car). Canada Goose, 113; Snow Goose, 1000 (est.); Blue Goose, 4000 (est.); Mallard, 12,000 (est.); Black Duck, 645 (est.); Gadwall, 20; Pintail, 87; Green-winged Teal, 13; Baldpate, 5; Shoveller, 5; Wood Duck, 1; Redhead, 8; Ring-necked Duck, 12; Canvas-back, 9; Lesser Scaup Duck, 353; Am. Golden-eye, 126; Buffle-head, 7; Hooded Merganser, 3; Am. Merganser, 35; Sharp-shinned Hawk, 13; Cooper's Hawk, 1; Red-tailed Hawk, 13; Red-shouldered Hawk, 1; Bald Eagle, 18; Marsh Hawk, 1; Sparrow Hawk, 12; Bob-white, 26; Am. Coot, 7; Killdeer, 9; Herring Gull, 66; Ring-billed Gull, 361; Mourning Dove, 76; Screech Owl, 1; Horned Owl, 1; Barred Owl, 1; Belted Kingfisher, 4; Yellow-shafted Flicker, 106; Pileated Woodpecker, 5; Red-bellied Woodpecker, 35; Red-headed Woodpecker, 700 (est.) [no comments given on how numbers were estimated or to explain extraordinary density—Ed.]; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 6; Downy Woodpecker, 78; Horned Lark, 1; Blue Jay, 340 (est.); Am. Crow, 683 (est.); Black-capped Chickadee, 56; Tufted Titmouse, 53; White-breasted Nuthatch, 14; Brown Creeper, 7; Winter Wren, 2; Carolina Wren, 54; Mockingbird, 2; Robin, 234; Eastern Bluebird, 74; Golden-crowned Kinglet, 5; Cedar Waxwing, 36; Starling, 251; Myrtle Warbler, 6; English Sparrow, 1650 (est.); European Tree Sparrow, 76; Meadowlark [sp.] 1; Red-wing, 78; Cardinal, 750 (est.); Am. Goldfinch, 63; Slate-colored Junco, 750 (est.); Oregon Junco (Montana), 1; Am. Tree Sparrow, 338; White-crowned Sparrow, 12; White-throated Sparrow, 4; Swamp Sparrow, 24; Song Sparrow, 67. **Total,** 72 species; about 25,616 individuals. (Seen Dec. 27: 2 Field Sparrows, Blue-winged Teal in nuptial plumage, Purple Finch.)—Rev. George M. Link (leader), K. Cope, N. Short, J. Ziervogel, J. Chomeau, W. Bremser, Jr., E. Wilhelm, D. Braun, T. Liebig, N. Waterbury, B. Waterbury, C. Hanna, C. Laun, J. Buese, H. Ball, G. Ball, D. Ball, W. Roreson (Pere Marquette Nature League).

266. River Forest (Cook Co.), Ill., and Chicago Lake Front (Forest Preserve areas and farmlands adjoining Des Plaines River between Madison St. and North Ave.; Chicago lake front and yacht harbors between Randolph St. and Northerly Island Airport; deciduous woodlands 50%, lake front and yacht basin 25%, open farmlands 15%, shrubby fields 10%).—Dec. 31; 7 a.m. to 3:30 p.m. Light drizzle and patches of fog hindered observations on Lake Michigan; temp. 40° to 43°; wind 1-10 m.p.h.; ground free of snow; river and lake completely free of ice. Total hours, 8½; total miles, 10 (on foot). Mallard, 15; Scaup Duck (sp.), 1; Am. Golden-eye, 186; Old-squaw, 12; Am. Merganser, 56; Red-shouldered Hawk, 1; Herring Gull and Ring-billed Gull, 1200 (est.); Bonaparte's Gull, 4; Hairy Woodpecker, 1; Downy Woodpecker, 9; Am. Crow, 10; Black-capped Chickadee, 22; Tufted Titmouse, 2; White-breasted Nuthatch, 2; Brown Creeper, 8; Golden-crowned Kinglet, 4; Starling, 94; English Sparrow, 33; Cardinal, 18; Am. Goldfinch, 1; Slate-colored Junco, 36; Song Sparrow, 2. **Total,** 23 species; about 1717 individuals. (Seen in area Jan. 7: Pintail, 1; Pintail-Mallard hybrid, 1; Harlequin Duck, 1 [seen 50 yds. off Shedd Aquarium with 10X50 binoculars, also observed independently by 5 members of Chicago Ornithological Society; said to be first local record in 25 years]; Buffle-head, 1; Purple Finch, 1.)—A. C. Montague.

267. Rockford, Ill. (Searles Memorial Park, Page Conservation Park, Seth Atwood Estate, Big Bend Game Preserve, Pecatonica River area of Harrison, Hohnonega Forest Preserve, and Rock River from Rockton to Rockford; open fields and farms 30%, creek and river borders 15%, deciduous woodlands 30%, coniferous plantings 5%, marshland and riverbottom sloughs 20%).—Dec. 26; 7 a.m. to 5:20 p.m. Cloudy at start, clearing at 10 a.m.; temp. 26° to 38°; calm all day; ground bare; most rivers and streams open; sloughs frozen. Ten observers together. Total hours, 10½; total miles, 80 (40 on foot, 40 by car). Canada Goose, 1100; goose (sp.), 25; Mallard, 6; Black Duck, 5; Am. Golden-eye, 50; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 16 (Eastern, 15; Western, 1); Red-shouldered Hawk, 3; Rough-legged Hawk, 2; Sparrow Hawk, 2; Mourning Dove, 2; Ring-necked Pheasant, 12; Horned Owl, 5; Barred Owl, 1; Long-eared Owl, 1; Short-eared Owl, 11; Saw-whet Owl, 2; Belted Kingfisher, 2; Yellow-shafted Flicker, 7; Downy Woodpecker, 40; Hairy Woodpecker, 3; Red-bellied Woodpecker, 35; Red-headed Woodpecker, 8; Horned Lark (Northern), 1; Blue Jay, 36; Am. Crow, 260; Black-capped Chickadee, 40; Tufted Titmouse, 3; White-breasted Nuthatch, 30; Brown Creeper, 3; Golden-crowned Kinglet, 38; Northern Shrike, 1; Loggerhead Shrike, 1; Starling, 150; English Sparrow, 200; Western Meadowlark, 1; Purple Grackle (Bronzed), 8; Cardinal, 63; Evening Grosbeak, 9; Am. Goldfinch, 30; Slate-colored Junco, 85; Tree Sparrow, 105; White-throated Sparrow, 3; Swamp Sparrow, 1; Song Sparrow, 1; Lapland Longspur, 9. **Total,** 46 species

(1 additional subspecies); 2419 individuals.—Harold E. Bennett, Paul Boynton, Lee Johnson, Edith VanDuser, Leland Ellis, David Seal, Don Smith Prentice, Milton Malhburg, Mary Jane Jones, John R. Welsh, Jr. (North Central Illinois Ornithological Society).

268. Southeastern Cook Co., Ill. (Little Calumet River, Green Lake Forest Preserve, Wolf Lake, and Eggers Woods, Lake Calumet, Lakefront Park, Calumet Park, Jackson Park; deciduous woods and wooded river banks 40%, dump and slag fill 15%, lake shore 30%, swampy woodland 15%).—Dec. 29; 7 a.m. to 5 p.m. Cloudy at start, clear after 11 a.m.; temp. 36° to 44°; wind E to NE, 1-7 m.p.h.; ground bare; rivers and Lake Michigan open; other lakes ¾ frozen. Three observers together. Total hours, 10 (6 on foot, 4 in car); total miles, 66 (60 by car, 6 on foot). Pied-billed Grebe, 1 (seen clearly by all observers, 8X binoculars, sunlight); Lesser Scaup Duck, 22; Am. Golden-eye, 12; Oldsquaw, 1; scoter (sp.), 3; unidentified ducks, 5; Bob-white, 6; Herring Gull, 246; Ring-billed Gull, 78; unidentified gulls (Herring and Ring-billed), 5300 (est.); Bonaparte's Gull, 13; Rock Dove, 64 (living as wild as English Sparrows and Starlings); Snowy Owl, 3 (all visible in one binocular field of view!); Yellow-shafted Flicker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 6; Blue Jay, 2; Am. Crow, 9; Black-capped Chickadee, 5; Tufted Titmouse, 1; White-breasted Nuthatch, 4; Robin, 1; shrike (sp.), 1; Starling, 182; English Sparrow, 126; Red-wing, 6; Cardinal, 17; Am. Goldfinch, 8; Slate-colored Junco, 134; Tree Sparrow, 51; Swamp Sparrow, 1 (R.P.—seen in good light); Song Sparrow, 5; Snow Bunting, 38. **Total,** 31 species; about 6353 individuals. (Seen in area Dec. 28: Sparrow Hawk, 2; Ring-necked Pheasant, 1.)—Hubert Davis, Marvin Davis, Richard Phillips.

269. Springfield, Ill. (7½-mile radius from center of Springfield, including Lake Springfield and Sangamon River region).—Dec. 26; 7 a.m. to 5:30 p.m. Overcast, with light drizzle and snow in a.m.; temp. 33° to 31° to 33°; wind N-7, to NW-7 to calm; ground saturated with rain; all water open. Thirteen observers in 6 parties. Total miles, 187 (160 by car, 27 on foot). Common Loon, 1; Pied-billed Grebe, 1; Canada Goose, 158; Mallard, 263; Black Duck, 1004; Gadwall, 1; Pintail, 3; Shoveller, 2; Wood Duck, 1; Redhead, 3; Canvasback, 8; Lesser Scaup Duck, 100; Am. Golden-eye, 95; Am. Merganser, 21; Red-breasted Merganser, 4; Red-tailed Hawk, 3; Red-shouldered Hawk, 4; Marsh Hawk, 1; Sparrow Hawk, 10; Bob-white, 57; Am. Coot, 1; Herring Gull, 3; Ring-billed Gull, 207; Bonaparte's Gull, 1 (R.A.); Rock Dove, 217 (living on concrete dam at Lake Springfield, the state capitol, and other public buildings); Mourning Dove, 1; Horned Owl, 1; Barred Owl, 5; Belted Kingfisher, 3; Yellow-shafted Flicker, 21; Pileated Woodpecker, 3; Red-bellied Woodpecker, 56; Red-headed Woodpecker, 74; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 14; Downy Woodpecker, 60; Horned Lark, 18; Blue Jay, 183; Am. Crow, 414; Black-capped Chickadee, 125; Tufted Titmouse, 93; White-breasted Nuthatch, 24; Brown Creeper, 20; Carolina Wren, 22; Mockingbird, 7; Catbird, 1 (no particulars given—Ed.); Robin, 2; Eastern Bluebird, 4; Golden-crowned Kinglet, 12; Loggerhead Shrike, 2; Starling, 800; English Sparrow, 685; Cardinal, 153; Purple Finch, 8; Am. Goldfinch, 20; Slate-colored Junco, 295; Tree Sparrow, 90; Fox Sparrow, 1; Song Sparrow, 19. **Total,** 59 species; 5407 individuals. (Seen in area Dec. 24, Bufflehead, 1; Dec. 25, Hooded Merganser, 1.)—Dr. and Mrs. Richard Allyn, Christine Bonney, Lola Carter, Lena Hardbarger, Lois Hogan, Beatrice Hopwood, Al Kaszynski, William O'Brien, Bill Robertson, Dana Snyder, Edith Sutton, Daisy Thompson (Springfield Nature League).

270. Waukegan, Ill. (Bowen Country Club ravines, Greenwood St. beach, Public Service cooling pond, inner and outer harbors, Roosevelt Park, upland swamp area, wooded estates on Sheridan Road; Lake Michigan shore, harbors, and Public Service pond 58%, deciduous woods 25%, fields 10%, swamp 7%).—Dec. 30; 7:30 a.m. to 3:30 p.m. Scattered clouds; temp. 33° to 36°; wind NE, 5 m.p.h.; ground partly covered with snow; lake and harbors open. Five observers together at lake front, separate in woods. Total hours, 10 (2½ by car, 7½ on foot); total miles, 30 (25 by car, 5 on foot). Pied-billed Grebe, 2; Mallard, 8 (some or all of which remain permanently at Public Service pond); Gadwall, 2; Baldpate, 1; Redhead, 3; Canvas-back, 2; Greater Scaup Duck, 4; Lesser Scaup Duck, 140; Am. Golden-eye, 62; Hooded Merganser, 1; hawk, 2 (both buteos, too far off to identify); Sparrow Hawk, 3; Herring Gull, 2625 (2000 est., 625); Ring-billed Gull, 7; Bonaparte's Gull, 40; Screech Owl, 1; Downy Woodpecker, 4; Am. Crow, 25; Black-capped Chickadee, 6; White-breasted Nuthatch, 1; shrike, 1 (probably Northern, judging by large size and overall light color); Starling, 66; English Sparrow, 85; Pine Siskin, 9; Slate-colored Junco, 22; Tree Sparrow, 87. **Total,** 26 species; about 3209 individuals.—Mrs. Reba Campbell, Norman Lerch, Mrs. Russel L. Mannette, Mrs. Paul A. Stephenson, Richard Zusi (Evanston Bird Club).

271. Appleton, Wis. (north to Mackville, east through Kaukauna, southeast to Cliffton, southwest through Neenah; swamp 20%, city parks and streets 10%, lake front 25%, hardwoods 10%, open fields 15%, river bank 5%, cemetery 15%).—Dec. 28; daylight to dusk. Cloudy, clearing at noon; temp. 24° to 41°; wind NE, 10-14 m.p.h.; ground mostly bare; river and lake partly open. Six observers in 2 parties. Total hours, 15 (11 on foot, 4 in car); total miles, 91 (18 on foot, 73 by car). Mallard, 20; Black Duck, 143; Am. Golden-eye, 167; Am. Merganser, 8; Red-tailed Hawk, 1; Ruffed Grouse, 19; Ring-necked Pheasant, 1; Herring Gull, 8; Red-bellied Woodpecker, 1 (observed for some time through binoculars and at close range by Mrs.

H.L.P., Mrs. C.McE., Mrs. W.E.R.; 1st record for this locality); Hairy Woodpecker, 3; Downy Woodpecker, 7; Blue Jay, 5; Am. Crow, 7; Black-capped Chickadee, 19; White-breasted Nuthatch, 5; Brown Creeper, 5; Starling, 25; English Sparrow, 150; Cardinal, 2; Am. Goldfinch, 30; Slate-colored Junco, 500 (1 flock, est.); Tree Sparrow, 12. **Total,** 22 species, about 1138 individuals. (Seen in area Dec. 29, Horned Owl, 1; Mourning Dove, 25.)—Mrs. Carrol McEathron, David Parmelee, Mrs. H. L. Playman, Luther H. Rogers, Mrs. Walter E. Rogers, Walter E. Rogers.

272. Green Bay, Wis. (upland woods 45%, swampy woods 15%, open fields 20%, river and bay shore 10%, city streets and cemeteries 10%).—Dec. 26; 8 a.m. to 3 p.m. Fair; temp. 11° to 20°; wind gentle; about 1-in. snow in sheltered places, light sprinkling or none in open. Six observers in 3 parties. Total miles, 88 (70 by car, 18 by foot). Mallard, 18; Black Duck, 75; Blue-winged Teal, 10 (with other ducks in open spot near power plant on bay) [no further details—Ed.]; Shoveller, 1; Greater Scaup Duck, 12; Am. Golden-eye, 1; Hooded Merganser, 1; Am. Merganser, 12; Goshawk, 1; European Partridge, 12; Ring-necked Pheasant, 4; Herring Gull, 78; Hairy Woodpecker, 6; Downy Woodpecker, 4; Blue Jay, 39; Am. Crow, 1; Black-capped Chickadee, 56; White-breasted Nuthatch, 6; Starling, 69; English Sparrow, 675; Cardinal, 6; Purple Finch, 1; Pine Grosbeak, 3; Common Redpoll, 1; Slate-colored Junco, 17; Tree Sparrow, 26; Snow Bunting, 125 (1 flock). **Total,** 27 species; 1260 individuals.—Mr. and Mrs. R. P. Hussong, Paul Romig, Ed Paulson, Bernard Chartier and Edwin Cleary (Green Bay Bird Club).

273. Horicon National Wildlife Refuge, Waupun (Dodge Co.), Wis. (on foot from refuge field headquarters north to Schaumburg's Ditch, west along channel to Main Ditch, north and west to marsh interior, south near Main Ditch to Lehner's Ditch, east and north to headquarters area, then by car along marsh road to Waupun; cattail and bulrush marsh 65%, willow and aspen 30%, hilly hardwoods 5%).—Dec. 27; 8:30 a.m. to 3 p.m. Cloudy at start with intermittent snow flurries during day; ½-in. snow on ground; all water frozen. Two observers together. Total hours, 7; total miles, 17 (10 by car, 7 by foot). Mallard, 5; Canada Goose, 2; Snowy Owl, 2; Red-tailed Hawk, 1; hawk (buteo sp.), 1; Ring-necked Pheasant, 12; Am. Crow, 3; Blue Jay, 1; Black-capped Chickadee, 8; Northern Shrike, 1; English Sparrow, 45; White-crowned Sparrow, 1 [no details—Ed.]. **Total,** 11 species; 82 individuals. (Seen in area, 2500 Canada Geese, Dec. 24, which was the day they departed from the Horicon Marsh; the week previous there were 6 to 7000 present.)—Lloyd F. Gunther, William F. Luehring.

274. Kenosha, Wis. (spruce-cedar bottoms 10%, thin deciduous woodlands 15%, fields 5%, sand dunes 15%, residential districts 20%, lake shore 35%).—Dec. 30; 7 a.m. to 4 p.m. Mostly clear (exceptional day for water birds); temp. 32° to 37°; wind SW, 6-14 m.p.h.; ½-in. snow on ground. Total hours, 9; total miles, 27 (20 by car, 7 on foot). Lesser Scaup Duck, 1; Am. Golden-eye, 375 (est.); Old-squaw, 141; Am. Merganser, 200 (est.); Red-breasted Merganser, 1; Sharp-shinned Hawk, 2; Marsh Hawk, 1; Ring-necked Pheasant, 3; Glaucous Gull (large size and white primaries flecked with gray noted), 1; Great Black-backed Gull (ad. in full plumage, all characters noted in comparison with Herring Gulls), 1; Herring Gull, 2975 (est.); Ring-billed Gull, 525 (est.); Bonaparte's Gull, 230; Long-eared Owl, 8; Belted Kingfisher, 1; Red-bellied Woodpecker, 1 (not seen in this area previously); Hairy Woodpecker, 1; Downy Woodpecker, 5; Blue Jay, 5; Am. Crow, 14; Black-capped Chickadee, 3; White-breasted Nuthatch, 2; Robin, 2; Starling, 52; English Sparrow, 350 (est.); Cardinal, 2; Pine Siskin, 1; Am. Goldfinch, 1; Slate-colored Junco, 132; Tree Sparrow, 76. **Total,** 30 species; about 5112 individuals.—Richard J. Gordon.

275. Lake Geneva, Wis. (around lake by car; lake front 30%, cattail marsh 10%, swamps 25%, open farmland 5%, tamarack swamp 5%, deciduous woods 25%).—Dec. 26; 7 a.m. to 4 p.m. Cloudy; temp. 27° at start, 30° at finish; wind W, 5 m.p.h.; 1-in. snow; lake entirely open. Six observers in 2 parties, separate in a.m., together in p.m. Total miles, 41 (30 by car, 11 on foot). Horned Grebe, 1; Canada Goose, 2000±; Mallard, 500±; Black Duck, 250±; Redhead, 12; Ring-necked Duck, 27; Canvas-back, 47; Scaup Duck [sp.], 11; Am. Golden-eye, 300±; Buffle-head, 22; Ruddy Duck, 8; Hooded Merganser, 17; Am. Merganser, 33; Red-tailed Hawk, 1; Rough-legged Hawk, 1; Ring-necked Pheasant, 3; Am. Coot, 400±; Herring Gull, 100; Ring-billed Gull, 6; Mourning Dove, 3; Screech Owl, 1; Belted Kingfisher, 1; Red-headed Woodpecker, 11; Hairy Woodpecker, 2; Downy Woodpecker, 7; Blue Jay, 15; Am. Crow, 33; Black-capped Chickadee, 17; White-breasted Nuthatch, 4; Brown Creeper, 1; Golden-crowned Kinglet, 11; Starling, 7; English Sparrow, 20; Red-wing, 1; Rusty Blackbird, 1; Cardinal, 1; Evening Grosbeak, 2; Am. Goldfinch, 10; Slate-colored Junco, 25; Tree Sparrow, 21; Song Sparrow, 3. **Total,** 41 species; 3936± individuals. (Scarcity of Starlings unusual.)—Earl Anderson, C. T. Clark, T. J. Nork, C. O Palmquist, Ellen Stephenson, R. J. Zusi (Chicago Ornithological Society).

276. Mazomanie, Wis. (marshes and wooded bottomlands on south side of Wisconsin River between Mazomanie and Sauk City, fields along north side of river to Ferry and Cactus Bluffs; deciduous woodland 40%, river 25%, marsh 20%, open fields 10%, residential 5%).—Dec. 31; 5:15 a.m. to 4:15 p.m. Overcast, becoming foggy in p.m.; temp. 40°; wind slight; ground mostly bare; river open. Two observers together. Total hours, 11; total miles, 59 (9 on foot, 50 in car). Am. Golden-eye, 27; Am. Merganser, 1; Red-tailed Hawk, 4; Bald Eagle, 10;

Marsh Hawk, 2; Sparrow Hawk, 1; Ruffed Grouse, 3; Bob-white, 3; Ring-necked Pheasant, 6; Herring Gull, 1; Horned Owl, 16; Barred Owl, 3; Yellow-shafted Flicker, 4; Pileated Woodpecker, 5; Red-bellied Woodpecker, 6; Red-headed Woodpecker, 15; Hairy Woodpecker, 4; Downy Woodpecker, 11; Blue Jay, 65; Am. Crow, 47; Black-capped Chickadee, 11; Tufted Titmouse, 1; White-breasted Nuthatch, 16; Brown Creeper, 1; Northern Shrike, 1; Starling, 20; English Sparrow, 150; Cardinal, 8; Evening Grosbeak, 2; Pine Siskin, 1; Am. Goldfinch, 17; Slate-colored Junco, 31; Tree Sparrow, 110. **Total,** 33 species; 603 individuals.—N. R. Barger, Sam Robbins.

277. Milwaukee, Wis. (same area as in 1948). —Dec. 26; 7 a.m. to 5 p.m. Completely overcast, clearing about 1 p.m.; temp. 30° to 27°; wind NW, 9-10 m.p.h., dying out at midday and resuming at 3 p.m., SW, 8-9 m.p.h.; ground bare; snow only in extremely sheltered spots; no ice on Lake Michigan. Seventeen observers in 6 parties. Total miles, 311 (48 on foot, 263 by car). Mallard, 800±; Black Duck, 300±; Gadwall, 2; Pintail, 7; Shoveller, 2; Wood Duck, 1 [no details—Ed.]; Redhead, 4; Ring-necked Duck, 1; Canvas-back, 40±; Greater Scaup Duck, 300±; Lesser Scaup Duck, 1200±; Am. Golden-eye, 1000±; Buffle-head, 375±; Old-squaw, 2900±; Ruddy Duck, 4; Hooded Merganser, 2; Am. Merganser, 3100±; Red-breasted Merganser, 600±; Sharp-shinned Hawk, 1; Red-tailed Hawk, 5; Sparrow Hawk, 13; European Partridge, 16; Ring-necked Pheasant, 30±; Am. Coot, 5; Herring Gull, 4300±; Ring-billed Gull, 700±; Bonaparte's Gull, 145±; Screech Owl, 1; Snowy Owl, 1; Short-eared Owl, 2; Long-eared Owl, 4; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 1; Hairy Woodpecker, 11; Downy Woodpecker, 30; Horned Lark, 2; Blue Jay, 7; Am. Crow, 110±; Black-capped Chickadee, 50±; White-breasted Nuthatch, 25; Red-breasted Nuthatch, 2; Brown Creeper, 2; Robin, 17; Mockingbird, 1; Golden-crowned Kinglet, 5; Northern Shrike, 4; Bohemian Waxwing, 2; Cedar Waxwing, 13; English Sparrow, 1800±; Brown-headed Cowbird, 1; Cardinal, 32; Evening Grosbeak, 15; Purple Finch, 4; Pine Grosbeak, 5; Common Redpoll, 2; Pine Siskin, 60±; Am. Goldfinch, 23; Slate-colored Junco, 100±; Tree Sparrow, 40±; White-crowned Sparrow, 1 [no details—Ed.]; Song Sparrow, 2. **Total,** 61 species; about 18,229 individuals.—Audrey Andrews, Mrs. A. P. Balsom, Herbert Brooks, Mrs. C. R. Decker, Mary Donald, Mr. and Mrs. C. P. Frister, John Hoogerheide, William Jackson, Rufin Jankowski, Bernard Kaiman, Herbert E. Kuhn, Kenneth Kuhn, Mrs. F. L. Larkin, Mason Le Tillier, Helmut C. Mueller, George W. Treichel (John Muir Club).

278. Seneca, Wis. (west-central Crawford County from Seneca northwest toward Mississippi River, along east side Mississippi River channel for about ¼ mile south of Locks No. 9, below Lynxville, and some selected riverbottom areas both north and south of Lynxville; deciduous woodlands 40%, pasture and open farmland 10%, beaver ponds and small stream 20%, along Mississippi River channel 10%, Mississippi River bottom 20%). —Dec. 25. Cloudy; temp. 34° to 37° to 30°; wind S, 5-18 m.p.h.; ground frozen, covered with 3-in. snow; ponds and most of river frozen, small stream partly frozen. Total hours, 7½; total miles, 46 (34 by car, 12 by foot). Red-tailed Hawk, 2; Red-shouldered Hawk, 1; Bald Eagle, 3; Bob-white, 10; Barred Owl, 2; Pileated Woodpecker, 2; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 5; Blue Jay, 6; Am. Crow, 5; Black-capped Chickadee, 15; Tufted Titmouse, 3; White-breasted Nuthatch, 8; Eastern Bluebird, 1; Starling, 19; English Sparrow, 34; Cardinal, 14; Am. Goldfinch, 6; Slate-colored Junco, 22; Tree Sparrow, 48. **Total,** 22 species; 218 individuals.—Clarence Paulson.

279. Waukesha, Wis. (approximately same area as last 3 years plus a little additional southward; 2 wooded areas in city, southwest to Kettle Moraine State Forest, along Fox River valley to Mukwonago Marsh, to Saylesville, south to Mukwonago and Big Bend; open farmlands 39%, deciduous farm woodlots 41%, tamarack swamp 4%, grassy marsh 11%, town suburbs 5%).—Dec. 26; 7 a.m. to 4:45 p.m. Cloudy; temp. 20° to 36°; wind NW, 0-12 m.p.h.; ground frozen, trace of old snow; 1 large spring open but river partly frozen. Fourteen observers (12 in 5 parties; 2 at feeding stations). Total hours, 27 (8 on foot, 19 by car); total miles, 156 (23 on foot, 133 by car). Pied-billed Grebe, 1; Mallard, 89; Black Duck, 346; Baldpate, 1; Red-tailed Hawk, 9; Rough-legged Hawk, 1; Sparrow Hawk, 2; European Partridge, 8; Ring-necked Pheasant, 2; Am. Coot, 1; Wilson's Snipe, 2; Herring Gull, 4; Horned Owl, 1; Belted Kingfisher, 1; Red-headed Woodpecker, 5; Hairy Woodpecker, 8; Downy Woodpecker, 18; Blue Jay, 33; Am. Crow, 365; Black-capped Chickadee, 59; White-breasted Nuthatch, 21; Brown Creeper, 1; Robin, 1; Starling, 112; English Sparrow, 691; Rusty Blackbird, 1; Cardinal, 1; Am. Goldfinch, 1; Slate-colored Junco, 62; Tree Sparrow, 245; Song Sparrow, 2. **Total,** 31 species; 2094 individuals. (Seen in area Dec. 28, Barred Owl, 1; Dec. 31, Brown-headed Cowbird, 1; Jan. 2, Red-wing, 1.)—Robert Adams, Vincent P. Batha, Harlow Bielefelt, Olive Compton, Eleanor Cuthbert, Walter Hahn, Paul Hoffmann, Emma Hoffmann, S. Paul Jones, Juanita Larsen, Charles E. Nelson, Jr., Mary Sydow, Theodore G. Wilder, Elizabeth Williams (Benjamin F. Goss Bird Club).

280. Wisconsin Dells, Wis. (Rocky Arbor Roadside Park, Coldwater Canyon, farmland around Wisconsin Dells, thence to wooded bottomlands along Wisconsin River near Portage, and to Devil's Lake State Park; mixed woodland 30%, deciduous woodland 10%, farmland 50%, marsh 10%).—Jan. 2; 7:15 a.m. to 2:45 p.m. Overcast and heavy fog; visibility often limited to 50 yds.; temp. 38°; wind slight; ground bare; river frozen. Three

observers together. Total hours, 7½; total miles, 64 (2 on foot, 62 in car). Ruffed Grouse, 4; Horned Owl, 1; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 9; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 4; Blue Jay, 50; Am. Crow, 31; Black-capped Chickadee, 12; White-breasted Nuthatch, 10; Golden-crowned Kinglet, 2; Cedar Waxwing, 1; Starling, 80; English Sparrow, 60; Cardinal, 9; Evening Grosbeak, 120; Purple Finch, 3; Am. Goldfinch, 11; Slate-colored Junco, 75; Tree Sparrow, 40. **Total,** 21 species; 525 individuals.—Mr. and Mrs. N. R. Barger, Sam Robbins.

281. Cedar Creek Forest (Anoka Co.), Minn. (about 4 square miles of Cedar Creek Game Refuge Area and land adjacent to road leading to area for a distance of about 13 miles; open farmland 35%, white pine and hardwood 30%, white cedar, tamarack, and alder 30%, cattail marsh 5%).—Jan. 1; 9 a.m. to 4 p.m. Overcast; temp. 38° at 9:30 a.m. to high of 39° at noon to 34° at 3:30 p.m.; wind S, 14 m.p.h. at 9:30 a.m. turning to WSW, 9 m.p.h. at 3:30 p.m.; no snow except remnants left from recent thaws; all water frozen. Nineteen observers in 5 parties. Total hours, 74 (68 on foot, 6 by car); total miles, 370 (120 on foot, 250 by car). Ruffed Grouse, 27; Ring-necked Pheasant, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Blue Jay, 66; Am. Crow, 6; Black-capped Chickadee, 75; White-breasted Nuthatch, 14; Red-breasted Nuthatch, 3; Brown Creeper, 2; Northern Shrike, 1; Starling, 24; English Sparrow, 10; Common Redpoll, 27; Pine Siskin, 45; Am. Goldfinch, 27; Slate-colored Junco, 8; Tree Sparrow, 2. **Total,** 19 species; 341 individuals.—Lewis Barrett, Thomas Bergerud, Thomas Breckenridge, W. J. Breckenridge, William Carlson, Amy Chambers, Mrs. A. D. Corneia, W. R. Hiller, Harold Johnson, D. K. Lewis, Mary I. Lupient, Theodora Melone, Jerry Paul, Mrs. Jerry Paul, John Rehbein, Mrs. Ruth Self, Dana Struthers, Arthur Wangaard, Dorothy Wangaard (Minnesota Bird Club).

282. Duluth, Minn. (Fond du Lac to Encampment Forest along St. Louis River and Lake Superior, including Minnesota Point; town suburbs 20%, deciduous city parks and highway 70%, sand dunes 10%).—Dec. 31; 8 a.m. to 5 p.m. Clear; temp. 15° to 25°; wind NW, 5-15 m.p.h.; ground covered with 1-2-in. crusted snow; all fresh water frozen except Lake Superior. Seventeen observers in 11 parties. Total hours, 44 (28 on foot, 16 by car); total miles, 157 (41 on foot, 116 by car). Lesser Scaup Duck, 1; Am. Golden-eye, 192; Bufflehead, 1; Am. Merganser, 4; Golden Eagle, 1; Ruffed Grouse, 10; Greater Prairie Chicken, 4; Ring-necked Pheasant, 2; Glaucous Gull, 3; Herring Gull, 633; Ring-billed Gull, 7; Snowy Owl, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 4; Downy Woodpecker, 40; Canada Jay, 1; Blue Jay, 7; Common Raven, 3; Black-capped Chickadee, 71; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 3; Robin, 3; Northern Shrike, 2; Starling, 111; English Sparrow, 138; Evening Grosbeak, 96; Pine Grosbeak, 35, Common Redpoll, 8; Pine Siskin, 1; Snow Bunting, 64. **Total,** 30 species; 1448 individuals.—Hulda Adams, Mr. and Mrs. Ralph Boeder, Mr. and Mrs. J. K. Bronoel, Margaret Brown, Sam Cox, Mary Elwell, O. A. Finseth, Henry Gilbert, Orr Hamilton, Pershing Hofslund, Olga Lakela, Gordon Morris, Frances Riddle, Mrs. Arthur Roberts, Helen Smith.

283. Minneapolis, Minn. (from Minneapolis, Camden Park, to Anoka, a 10-mile radius on both sides of the Mississippi River; deciduous wooded river banks and valleys 40%, open farmland 30%, deciduous wooded farmland 15%, town suburb 15%).—Dec. 26; 9 a.m. to 5 p.m. Clear, becoming overcast about 10:30 a.m.; temp. 2° to 18° to 10°; wind SE, 5-12 m.p.h.; ground bare of snow and frozen; all fresh water frozen except various spots in Mississippi River. Twenty-two observers in 6 parties. Total hours, 8; total miles, 221½ (200 by car, 21½ on foot). Am. Golden-eye, 350; Ring-necked Pheasant, 80 (25 cocks, est.); Yellow-shafted Flicker, 1; Pileated Woodpecker, 2; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 3; Hairy Woodpecker, 12; Downy Woodpecker, 25; Blue Jay, 72; Am. Crow, 15; Black-capped Chickadee, 124; White-breasted Nuthatch, 43; Red-breasted Nuthatch, 1; Brown Creeper, 3; Starling, 20; English Sparrow, 1235; Cardinal, 10; Pine Siskin, 4; Am. Goldfinch, 17; Tree Sparrow, 63; Slate-colored Junco, 25. **Total,** 21 species; 2106 individuals.—Lewis L. Barrett, Arthur P. Boe, Barbara Boe, Amy Chambers, Dorothy M. Faber, John Futcher, Brad Gilbert, Peggy Hartfiel, David Himrod, Boyd Lien, Helen Lien, John Pavek, William R. Pieper, George Rickert, Mrs. M. H. Rosien, Marvin Rosien, Glen Shirley, Mrs. Victor Smith, Major Charles H. Snyder, Mildred O. Snyder, Vera Sparkes, Milton D. Thompson, Ted Warren (Minneapolis Bird Club).

284. Minneapolis, Minn. (Theodore Wirth Park, Thomas S. Roberts Bird Sanctuary, Minnesota River valley, ine Mile Creek; riverbottom 40%, city park 30%, open farmland 20%, mixed woodland 10%).—Dec. 31; 8 a.m. to 4 p.m. Clear to partly cloudy; temp. 28° to 33°; wind N, 2-8 m.p.h.; ground bare. Eight observers in 2 parties. Total hours, 16; total miles, 43 (12 on foot, 31 by car). Mallard, 1; Pintail, 1; Ring-necked Pheasant, 17; Wilson's Snipe, 2; Barred Owl, 3; Pileated Woodpecker, 2; Red-bellied Woodpecker, 2; Hairy Woodpecker, 10; Downy Woodpecker, 22; Blue Jay, 52; Am. Magpie, 1 (present in bird sanctuary for several days prior to count); Am. Crow, 3; Black-capped Chickadee, 67; White-breasted Nuthatch, 31; Red-breasted Nuthatch, 1; Brown Creeper, 1; Robin, 2; Golden-crowned Kinglet, 2; Starling, 78; English Sparrow, 300+; Red-wing, 250+; Brown-headed Cowbird, 6; Cardinal, 17; Purple Finch, 2; Am. Goldfinch, 5; Slate-colored Junco, 60; Tree Sparrow, 36. **Total,** 27 species; about 974 individuals.—Lula May Aler, Anna J. Johnson, Bonnie Rotschka, Mrs. C. R. Nelson, Mr. and Mrs. P. D. Tryon, Mr. and Mrs. E. D. Swedenborg (Minneapolis Audubon Society).

285. St. Paul, Minn. (McMenemy Bog area to and including Lake Vadnais and Lake Sucker comprising the Municipal Pine Forest, along Edgerton to State Fish Hatchery and 3 miles along Mississippi River near Sewage Processing Plant; open farmland 20%, pine and spruce forest 40%, deciduous woods, including several farm woodlots 20%, cattail and grassy marsh and some tamarack bog 10%, river-bottom land 10%).—Dec. 26; 8:30 a.m. to 4:45 p.m.. Clear changing to mostly cloudy; temp. 2° to 16°; wind SE, 5 m.p.h., increasing to 18 m.p.h. in p.m.; trace of snow in open areas, a bit more in woods; all lakes completely ice-covered except where city water canals enter, several open water runs in bogs; Mississippi River 85% ice-covered. Thirteen observers in separate groups 50% of the time. Total hours, 15 (on foot); total miles, 22 (on foot). Common Loon, 1; Lesser Scaup Duck, 1; Am. Golden-eye, 120+; Hooded Merganser, 1; Ring-necked Pheasant, 18; Barred Owl, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 7; Downy Woodpecker, 6; Blue Jay, 23; Am. Crow, 5; Black-capped Chickadee, 60+; White-breasted Nuthatch, 6; Red-breasted Nuthatch, 2; Brown Creeper, 2; Robin, 1; Golden-crowned Kinglet, 3; Starling, 400; English Sparrow, 250; Cardinal, 8; Evening Grosbeak, 1 (A. C. R.); Am. Goldfinch, 20; Slate-colored Junco, 20; Oregon Junco, 1 (seen on ground with Slate-colored Juncos at 35 ft. through binoculars and in good light by 11 observers; black hood, sharply separated from brownish back and wings and from yellowish tan on sides. First noticed by Robert Smith, familiar with the species in California); Tree Sparrow, 25+. **Total,** 25 species; about 983 individuals.—Jack Bardon, Herman Brown, J. A. Hall, J. A. Haner, G. A. Kibler, R. A. Kortmann, Caroline Larson, Genevieve Pearson, C. Reed, A. C. Rosenwinkel, Robert Smith, Dorothy Sundry, Dr. V. Whipple (St. Paul Audubon Society).

286. South St. Paul, Minn. (So. St. Paul, Armour Ave., Greycloud Island, Hastings, and Prescott; open farmlands 5%, town and suburb 10%, deciduous woods 60%, coniferous woods 20%, slough and marsh 5%).—Dec. 31; 9 a.m. to 5:30 p.m. Clear to partly cloudy; temp. 28° (start) to 32° (finish); wind NNW, 0-10 m.p.h.; no snow; small patches of ice in hollows, thin film of ice covering ground, no ice coating on foliage; back waters of river covered with ice, channel 50% open. Twelve observers, separated intermittently. Total hours, 12 (on foot); total miles, 10 (on foot). Lesser Scaup Duck, 4; Am. Golden-eye, 86; Ring-necked Pheasant, 5; Pileated Woodpecker, 2; Red-bellied Woodpecker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 1; Blue Jay, 9; Am. Crow, 1; Black-capped Chickadee, 6; White-breasted Nuthatch, 10; Brown Creeper, 1; English Sparrow, 275; Cardinal, 7; Am. Goldfinch, 1; Slate-colored Junco, 3; Tree Sparrow, 41. **Total,** 17 species; 419 individuals.—George G. Anderson, Jack Bardon, James Berry, Brother Pius, Oscar Enstrom, Richard Foss, J. A. Hall, Sr., Elsie R. Hinchley, James Larsen, Caroline Larson, Peter Miller, Nettie Morrison (St. Paul Audubon Society).

287. Swan Lake (Nicollet Co.), Minn. (Nicollet landing along shore line, throughout peninsulas, and islands; deciduous woodland 80%, cattail marsh 10%, meadowland 10%).—Dec. 26; 7 a.m. to 4:15 p.m. Clear to slightly overcast; temp. 3° to 15° to 11°; wind SW, 13-18 m.p.h.; ground covered with ½-in. powdery snow, some drifts, some bare ground; lake covered with 8-10 inches of ice. Total hours, 9; total miles, 17 (all on foot). Red-tailed Hawk, 1; Ring-necked Pheasant, 33; Mourning Dove, 1; Barred Owl, 1; Short-eared Owl, 1; Yellow-shafted Flicker, 1; Pileated Woodpecker, 1; Hairy Woodpecker, 13; Downy Woodpecker, 37; Blue Jay, 7; Am. Crow, 1; Black-capped Chickadee, 83; White-breasted Nuthatch, 21; Brown Creeper, 5; Meadowlark [sp.], 1; Cardinal, 5; Slate-colored Junco, 5. **Total,** 17 species; 217 individuals.—Ron Anderson (Mankato Audubon Society).

288. Walker, Minn. (from center of town to points approximately 5 miles in each direction; around Walker Bay on Leech Lake and Lake May; coniferous forest [Chippewa National] 60%, cut-over lands with alder, poplar, and birch stands and numerous small clearings 40%).—Jan. 1; 9 a.m. to 4 p.m. Overcast; temp. 30°; wind very light; ground covered with 5-in. crusted snow; all lakes frozen, a few streams open. Four observers together. Total miles, 45 (40 in car, 5 on foot); Ruffed Grouse, 3; Hairy Woodpecker, 3; Downy Woodpecker, 6; Blue Jay, 6; Black-capped Chickadee, 30; White-breasted Nuthatch, 15; Red-breasted Nuthatch, 1; Bohemian Waxwing, 18; Northern Shrike, 1; Starling, 41; English Sparrow, 31; Cardinal, 1; Evening Grosbeak, 22; Pine Grosbeak, 40; Snow Bunting, 31. **Total,** 15 species; 249 individuals. (Seen in area, Dec. 31, Slate-colored Junco, 1; Brown Creeper, 1; Common Redpoll, 25.)—Stanton Oman, Harold and Bruce Hanson, Lyman Newlin.

289. Atlantic, Iowa (Atlantic Cemetery, Sunnyside Park and vicinity, Lewis Cemetery and Cold Springs State Park; deciduous woodland 40%, coniferous groves 50%, open fields 10%).—Dec. 29; 9 a.m. to 5 p.m. Clear; temp. 16° to 38°; wind NW, 5 m.p.h. Six observers together. Total hours, 8; total miles, 22 (6 on foot, 16 by car). Red-tailed Hawk, 2; Rough-legged Hawk, 1; Marsh Hawk, 1; Ring-necked Pheasant, 1; Yellow-shafted Flicker, 10; Red-bellied Woodpecker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 8; Blue Jay, 15; Am. Crow, 7; Black-capped Chickadee, 60; White-breasted Nuthatch, 5; Red-breasted Nuthatch, 3; Brown Creeper, 8; Golden-crowned Kinglet, 8; Starling, 12; English Sparrow, 35; Cardinal, 12; Am. Goldfinch, 12; Slate-colored Junco, 100; Tree Sparrow, 10; Harris's Sparrow, 10. **Total,** 22 species; 325 individuals. (Seen Dec. 28: Eastern Meadowlark, 12; Western Meadowlark, 3; Horned Lark, 8).—Anne Barnard, Gene Ruhr, Robert Alexander, Norman Hansen, Charles Mallette, Don Bice (Atlantic Bird Club).

290. Cedar Falls, Iowa (Josh Higgins Park, Snag Creek, area around Washington Union Bridge, Hartman Reserve; open woodlands 80%, dense deciduous timber 10%, river bottomland 10%).—Dec. 30; 8 a.m. to 3:15 p.m. Cloudy; temp. 30° to 44°; wind SE, 10 m.p.h.; ground covered with crusted snow in a.m., thawing in p.m.; most fresh water open. Seven observers together. Total hours, 45 (on foot); total miles, 38 (on foot). Red-shouldered Hawk, 2; Ring-necked Pheasant, 2; Screech Owl, 1; Barred Owl, 4; Long-eared Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 2; Hairy Woodpecker, 8; Downy Woodpecker, 12; Blue Jay, 15; Am. Crow, 25; Black-capped Chickadee, 40; White-breasted Nuthatch, 25; Brown Creeper, 6; Golden-crowned Kinglet, 1; Starling, 1; English Sparrow, 60; Purple Grackle, 1; Cardinal, 8; Am. Goldfinch, 2; Slate-colored Junco, 35; Tree Sparrow, 100. **Total,** 23 species; 353 individuals.—Emery Wills, C. W. Robertson, George Faulkner, Russell Hayes, Frances Crouter, Maybelle Brown, Mrs. Russell Rugg.

291. Davenport, Iowa (Oakdale Cemetery to Duck Creek Park; along Middle Road and creek bottoms to Devils' Glen; Credit Island and nearby shore area along Mississippi River).—Dec. 25; 7 a.m. to 4 p.m. Cloudy; temp. 37° to 38°; variable southerly winds 10-25 m.p.h. in a.m., steady SW in p.m.; thin covering of snow on ground except in exposed areas; a trace of snow at start; creeks open in some places, harbor and lake frozen at Credit Island; Mississippi open except near shore. Total miles, 12 (on foot). Canada Goose, 67; Am. Golden-eye, 13; Red-tailed Hawk, 1; Red-shouldered Hawk, 2; Bald Eagle, 1; Bob-white, 1; Herring Gull, 4; Ring-billed Gull, 28; Barred Owl, 2; Snowy Owl, 1 (saw this large whitish bird on Credit Is. as it perched for a moment in a tree about 25 ft. overhead before being chased by 4 crows); Red-bellied Woodpecker, 7; Red-headed Woodpecker, 5; Hairy Woodpecker, 1; Downy Woodpecker, 21; Horned Lark, 6; Blue Jay, 47; Am. Crow, 13; Black-capped Chickadee, 32; Tufted Titmouse, 5; White-breasted Nuthatch, 10; Brown Creeper, 2; Carolina Wren, 1; Starling, 878 (850 est., 28); English Sparrow, 364; Cardinal, 35; Am. Goldfinch, 2; Slate-colored Junco, 187; Tree Sparrow, 53; Song Sparrow, 1. **Total,** 29 species; about 1790 individuals. (A Belted Kingfisher seen at Credit Is., Jan. 1.)—C. F. Mueller.

[James Hodges made an 8-hour count in the same area on Dec. 28 and recorded the following additional species: Lesser Scaup Duck, 45; Am. Merganser, 10; Goshawk, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Rough-legged Hawk, 1; Flicker [sp.], 1; Golden-crowned Kinglet, 6; White-throated Sparrow, 3; Snow Bunting, 7. **Total,** 34 species; 2425 individuals.]

292. Des Moines, Iowa (Fisher's Lake, Sycamore Park, Dove Woods, Pine Hill Cemetery, 28th St. Sanctuary, Impounding Reservoir, Walnut Woods State Park, Chas. Sing Denman Woods, Des Moines River bank in vicinity of 6th St. bridge; open fields 35%, wooded streams 35%, lakeside 30%).—Dec. 26; 8:30 a.m. to 5:30 p.m. Clear; temp. 8° to 26°; wind SE, 2 m.p.h. to SSE, 9 m.p.h.; ground covered with 1-2-in. snow; water frozen but some open water in running streams and Impounding Reservoir. Seventeen observers in 4 parties. Total hours, 25 (20 on foot, 5 by car); total miles, 70 (18 on foot, 52 by car). Mallard, 4000 (est.); Black Duck, 40; Baldpate, 1; Pintail, 16; Ruddy Duck, 1; Hooded Merganser, 2; Am. Merganser, 12; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 5; Rough-legged Hawk, 4; Marsh Hawk, 1; Sparrow Hawk, 3; Bob-white, 12; Am. Coot, 7; Screech Owl, 1; Barred Owl, 2; Long-eared Owl, 1; Short-eared Owl, 2; Saw-whet Owl, 1; Flicker [sp.], 25; Red-bellied Woodpecker, 11; Hairy Woodpecker, 12; Downy Woodpecker, 28; Blue Jay, 23; Am. Crow, 48; Black-capped Chickadee, 76; Tufted Titmouse, 31; White-breasted Nuthatch, 22; Red-breasted Nuthatch, 1; Brown Creeper, 5; Brown Thrasher, 1; Robin, 8; Northern Shrike, 1; Starling, 41; English Sparrow, 350 (est.); Cardinal, 103; Purple Finch, 11; Am. Goldfinch, 35; Slate-colored Junco, 150; Tree Sparrow, 303 (200 est., 103); Song Sparrow, 9. **Total,** 42 species; about 5411 individuals.—Ruth Binsfeld, Dorothy Anderson, Irene Smith, Joe K. Brown, Helen Peasley, Bruce Stiles, Ed. Kozicky, Mr. and Mrs. Lester Haskell, Olivia McCabe, Toni Wendelburg, A. C. Berkowitz, Mr. and Mrs. J. P. Moore, George McGill, Mary Ellen Warters, Woodward Brown.

293. Dubuque, Iowa (Linwood and Mt. Calvary cemeteries, Eagle Point Park, City Island, Mississippi River sloughs in Wisconsin; open fields 10%, pine woodlands 15%, deciduous woodlands 40%, river sloughs 35%).—Dec. 26; 8 a.m. to 4:30 p.m. Clear with bright sunshine; temp. 10° to 25°; wind light; 1-in. crusted snow; river open ½-mile below dam. Eight observers together. Total hours, 7½ (6½ on foot, 1 in car); total miles, 12 (7 on foot, 5 by car). Double-crested Cormorant, 1 [no details—Ed.]; Am. Golden-eye, 4; Am. Merganser, 16; Red-shouldered Hawk, 1; Bald Eagle, 6; Herring Gull, 7; Barred Owl, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 2; Pileated Woodpecker, 1; Red-bellied Woodpecker, 5; Red-headed Woodpecker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 16; Horned Lark, 3; Blue Jay, 22; Am. Crow, 43; Black-capped Chickadee, 17; Tufted Titmouse, 3; White-breasted Nuthatch, 11; Red-breasted Nuthatch, 2; Brown Creeper, 3; Robin, 4; Eastern Bluebird, 1; Golden-crowned Kinglet, 3; Starling, 19; English Sparrow, 189; Cardinal, 30; Purple Finch, 1; Am. Goldfinch, 2; Slate-colored Junco, 30; Tree Sparrow, 68; Song Sparrow, 1. **Total,** 33 species; 518 individuals.—Frieda and George Crossley, David Reed, Howard Hintz, Howard Lampe, Lois Lampe, Anita Ayala, Janet Birch (Dubuque Audubon Club).

294. Mount Vernon, Iowa (center of town north to old golf course, Ivanhoe south and east

of Cedar River, to Dark Hollow and Spring Hollow in Palisades-Kepler State Park; open farmland 50%, town 10%, park woodland 40%).—Dec. 24; 8 a.m. to 12:30 p.m., 1 to 4:30 p.m. Bright sun; wind SE, 20 m.p.h.; temp. 16°; light snow on ground; main channel of river open. Total hours, 8; total miles, 14. Ring-necked Duck, 3; Red-tailed Hawk, 2; Bald Eagle, 3 (2 ad., 1 imm.); Marsh Hawk, 2; Ring-billed Gull, 1; Horned Owl, 1; Barred Owl, 1; Red-bellied Woodpecker, 2; Red-headed Woodpecker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 2; Blue Jay, 9; Am. Crow, 5; Black-capped Chickadee, 18; Tufted Titmouse, 5; White-breasted Nuthatch, 2; Golden-crowned Kinglet, 1; Starling, 123; Am. Goldfinch, 9; English Sparrow, 57; Cardinal, 9; Slate-colored Junco, 36; Tree Sparrow, 3; Song Sparrow, 1. **Total,** 24 species; 299 individuals. —J. Harold Ennis.

295. Newton, Iowa (Westwood Park south along Cherry Creek to South Skunk River below Metz for 2 miles; open farmland 40%, timbered creek-bottom 20%, elm-timbered riverbottom 40%). —Jan. 2; 8 a.m. to 5 p.m. Very heavy fog; visibility varied from 100 ft. to ½ mile; temp. 35° to 40°; wind WSW, 1-5 m.p.h.; light snow on ground mostly gone by night; river open. Four observers in 1 party. Total hours, 8; total miles, 10 (on foot). Cooper's Hawk, 1; Red-tailed Hawk, 1; Ring-necked Pheasant, 1; Horned Owl, 1; Barred Owl, 1; Yellow-shafted Flicker, 2; Red-bellied Woodpecker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 16; Blue Jay, 2; Am. Crow, 6; Black-capped Chickadee, 12; Tufted Titmouse, 4; White-breasted Nuthatch, 5; English Sparrow, 125; Cardinal, 14; Slate-colored Junco, 8; Tree Sparrow, 5. **Total,** 18 species; about 209 individuals.—John Paul Moore, Jim Gaylor, Konnie Yoshinaga, Mas Yoshinaga.

296. Sioux City (Woodbury Co.), Iowa (15-mile diameter, including southeastern Union Co., S. Dak.; deciduous timber woodland and park areas 40%, river and lake country 25%, open country 25%, city and suburban area 10%).—Dec. 26; 7:30 a.m. to 4:30 p.m. Clear in a.m., partially overcast at noon, overcast at 4 p.m.; temp. 3° to 35°; wind 5 m.p.h. in a.m. to 8-10 m.p.h. in p.m.; ground mostly bare; Missouri River frozen but ice breaking up in large blocks in main channel, Big Sioux River open south of Sioux City Gas and Power Plant; water in all lakes and marshes higher than usual during fall period. Thirty-three observers in 19 parties. Total party-hours, 54; total party-miles, 160 (127 by car, 33 on foot). Mallard, 5; Am. Merganser, 57; Red-tailed Hawk, 8; Rough-legged Hawk, 2; Prairie Falcon, 1 [no details—Ed.]; Ring-necked Pheasant, 6; Screech Owl (red phase), 2; Horned Owl, 1; Yellow-shafted Flicker, 9; Red-bellied Woodpecker, 4; Red-headed Woodpecker, 1; Hairy Woodpecker, 21; Downy Woodpecker, 50; Blue Jay, 30; Am. Magpie, 2; Am. Crow, 2334; Black-capped Chickadee, 267; White-breasted Nuthatch, 19; Red-breasted Nuthatch, 2; Brown Creeper, 26; Eastern Bluebird, 3; Golden-crowned Kinglet, 5; Ruby-crowned Kinglet, 4 [no details—Ed.]; Starling, 216; English Sparrow, 1718; Cardinal, 51; Pine Siskin, 12; Am. Goldfinch, 7; Slate-colored Junco, 245; Tree Sparrow, 107; Harris's Sparrow, 8. **Total,** 31 species; 5253 individuals.—Harrold Asmussen, Mr. and Mrs. W. W. Barrett, H. M. Edwards, Mrs. E. A. Emery, Mrs. O. J. Follett, R. D. Hissong, Bob Jensen, Holger Jensen, Warren Jensen, Jean L. Laffoon, Mrs. Adaline T. Lambert, Howard Lambert, Jim Lambert, Mary Lambert, Zell C. Lee, Alice Loeffler, Mrs. A. B. Madsen, George E. Marsh, Jeanette Marsh, L. Nickolson, Bob Nickolson, I. G. Nore, Gladys Palmer, Grace Brainerd, Mrs. Robert Pike, Mrs. Lillian Ricketts Smith, Mrs. J. F. Wilson, Fred Strange, Mrs. Julia Schott, Dean Swearingen, Gertrude Weaver, Carl Wellhausen (Sioux City Bird Club).

297. Doniphan, Mo. (town and surrounding area 3 miles north, 7 miles southeast, banks of Current River adjoining town; farm woodlots 25%, open pasture 15%, fence rows 15%, brushy tracts 20%, wooded riverbottom 25%).—Dec. 28; dawn to dark. Fair; temp. 21° to 38°; wind N, 0-5 m.p.h.; water open. Two observers together. Total hours, 10 (9 on foot, 1 in car); total miles, 10. Rough-legged Hawk, 2; Killdeer, 1; Mourning Dove, 6; Belted Kingfisher, 2; Yellow-shafted Flicker, 4; Pileated Woodpecker, 4; Red-bellied Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 4; Blue Jay, 6; Am. Crow, 16; Carolina Chickadee, 12; Tufted Titmouse, 18; White-breasted Nuthatch, 3; Brown Creeper, 1; Bewick's Wren, 1; Carolina Wren, 13; Mockingbird, 5; Eastern Bluebird, 39; Golden-crowned Kinglet, 1; Cedar Waxwing, 12; Loggerhead Shrike, 1; Starling, 2; English Sparrow, 10; Eastern Meadowlark, 20; Cardinal, 26; Am. Goldfinch, 12; Eastern Towhee, 2; Slate-colored Junco, 74; Am. Tree Sparrow, 1; Chipping Sparrow, 1; Field Sparrow, 36; White-crowned Sparrow, 1; White-throated Sparrow, 16; Song Sparrow, 5. **Total,** 35 species; 361 individuals. (Seen in area Dec. 23, Bob-white, 25.)—C. L. Criswell, Wayne Bell.

298. Kansas City, Mo. and Kans. (Lake Quivira, Wyandotte County Lake, Swope Park, Briarcliff, Parkville, and Clay County; deciduous woodland 45%, conifer groves 2%, weedy fields and thickets 28%, artificial lakes 25%).—Dec. 26; 7:30 a.m. to 5 p.m. Clear; temp. 10° to 28°; wind, less than 5 m.p.h.; 2-in. ice on ground; lakes half-frozen. Thirty observers in 5 parties. Total hours, 44 (33 on foot, 11 by car); total miles, 82 (46 on foot, 36 by car). Mallard, 5300 (est.); Black Duck, 11; Gadwall, 27; Pintail, 14; Green-winged Teal, 8; Blue-winged Teal, 4; Shoveller, 2; Redhead, 2; Ring-necked Duck, 1; Lesser Scaup Duck, 3; Am. Golden-eye, 8; Hooded Merganser, 3; Am. Merganser, 2040 (est.); Red-tailed Hawk, 11; Harlan's Hawk, 1; Red-shouldered Hawk, 1; Broad-winged Hawk, 1 (D.D.) [no details—Ed.]; Rough-legged Hawk, 2; Bald Eagle, 3; Marsh Hawk; 2; Sparrow

Hawk, 6; Bob-white, 17; Am. Coot, 3; Killdeer, 2; Wilson's Snipe, 6; Mourning Dove, 28; Barred Owl, 1; Belted Kingfisher, 8; Yellow-shafted Flicker, 77; Red-shafted Flicker (not a hybrid), 1; Red-bellied Woodpecker, 55; Red-headed Woodpecker, 6; Hairy Woodpecker, 4; Downy Woodpecker, 63; Horned Lark, 6; Blue Jay, 141; Am. Crow, 1240 (est.); Black-capped Chickadee, 390 (est.); Tufted Titmouse, 130 (est.); White-breasted Nuthatch, 12; Red-breasted Nuthatch, 2; Brown Creeper, 20; Carolina Wren, 10; Brown Thrasher, 1; Robin, 4; Eastern Bluebird, 62; Golden-crowned Kinglet, 16; Ruby-crowned Kinglet, 2; Cedar Waxwing, 40; Loggerhead Shrike, 2; Starling, 2610 (est.); English Sparrow, 690 (est.); Meadowlark (sp.), 40; Redwing, 20; Brown-headed Cowbird, 27; Cardinal, 265 (est.); Purple Finch, 4; Am. Goldfinch, 64; Eastern Towhee, 3; Spotted Towhee, 3; Slate-colored Junco, 600 (est.); Oregon Junco, 1; Am. Tree Sparrow, 630 (est.); Harris's Sparrow, 34; White-throated Sparrow, 1; Fox Sparrow, 1; Lincoln's Sparrow, 1 [no details—Ed.]; Song Sparrow, 125 (est.). **Total,** 68 species; about 14,916 individuals.—Nathan Fay, Christine Fay, Sylvia Fay, Margaret Diemer, Curtis Stout, Keith Stout, Gordon Stout, Julian Evans, McGee Evans, Harold Hedges, Henry Harford, Dean Cole, Elizabeth Cole, Mrs. E. H. Lahrman, Jim Meyers, Mary Louise Meyers, Esther O'Connor, Bernice Tatum, Mark Tuttle, John Reid, Earl Newton, John Bishop, Mr. and Mrs. Wayne Hanley, Kathleen Hanley, Robert Werning, Dick Dawson, Rilla Hammat, Mrs. C. Schoen, Bill Meyer (Burroughs Nature Club).

299. Portage Des Sioux, Mo. (including Marais Temps Clair, Weber Lake, and Harbor Point Village, near confluence of Missouri and Mississippi rivers; deciduous woods 45%, farmland 15%, marshland 25%, open water 15%).—Dec. 26; 9 a.m. to 5 p.m. Cloudy; temp. 28° at start, 35° at return; wind NW, 15 m.p.h.; all water open. Two observers together. Total hours, 8; total miles, 27 (20 by car, 7 on foot). Mallard, 220; Black Duck, 60; Pintail, 43; Ring-necked Duck, 1; Canvasback, 27; Lesser Scaup Duck, 35; Am. Golden-eye, 5; Ruddy Duck, 17; Goshawk, 1 (seen at 50 ft. through 7X glasses by both observers; eye line, light back, and pearly-gray underparts studied as the bird rested in a tree); Red-tailed Hawk, 1; Red-shouldered Hawk, 1; Bald Eagle, 2; Marsh Hawk, 4; Sparrow Hawk, 9; Am. Coot, 1; Ring-billed Gull, 5; Yellow-shafted Flicker, 5; Red-bellied Woodpecker, 1; Red-headed Woodpecker, 40; Hairy Woodpecker, 1; Downy Woodpecker, 7; Horned Lark, 1; Blue Jay, 4; Am. Crow, 400 (est.); Short-eared Owl, 1; Black-capped Chickadee, 5; Tufted Titmouse, 1; White-breasted Nuthatch, 1; Brown Creeper, 1; Carolina Wren, 2; Starling, 133; English Sparrow, 180; Eastern Meadowlark, 3; Redwing, 4; Purple Grackle, 2; Brown-headed Cowbird, 2; Cardinal, 40; Slate-colored Junco, 20; Am. Tree Sparrow, 80; Swamp Sparrow, 2; Song Sparrow, 6. **Total,** 41 species; about 1374 individuals.—Kurt Wesseling, Jr., Louis Hoppe.

300. Rankin (St. Louis Co.) Mo. (tract between Valley Park and Eureka 6 miles long, 4 miles wide; deciduous woods on Ozark hillslopes 40%, open valleys bordering spring-fed creeks and Meramec River 40%, red cedar groves 8%, farmland 10%, water 2%; this area is now a Boy Scout Reservation).—Jan. 2; 8:30 a.m. to 4:30 p.m. Cloudy with intermittent showers; temp. 54° to 63°; wind SW, 0-7 m.p.h.; ground clear, wet; all water open. Eleven observers in 3 parties. Total hours, 10 (on foot); total miles, 11 (on foot). Red-tailed Hawk, 1; Sparrow Hawk, 2; Pileated Woodpecker, 1; Red-bellied Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 4; Blue Jay, 1; Am. Crow, 89; Carolina Chickadee, 13; Black-capped Chickadee, 1; Tufted Titmouse, 20; White-breasted Nuthatch, 5; Carolina Wren, 8; Eastern Bluebird, 7; Cedar Waxwing, 19; Myrtle Warbler, 8; English Sparrow, 97; Cardinal, 49; Slate-colored Junco, 23; White-throated Sparrow, 1. **Total,** 20 species; 353 individuals.—Beulah Bedell, Helen Bowman, Adolph Dryer, Hubert Lewis, J. Marshall Magner, George Moore, Polly Moore, Paul Neuhoff, Frances Pickel, Sophia Smith, Bruce Tanner (Webster Groves Nature Study Society).

301. Springfield, Mo. (4-12 miles southwest of city limits; country rolling and somewhat rocky; weedy fields and thickets 40%, deciduous woods, mostly post and black jack oaks with a few cedars 40%, overgrown fencerows 10%, farmland 7%, ponds 3%).—Dec. 29; 11:30 a.m. to 6:30 p.m. Clear; temp. 49° to 55° to 43°; wind S, 8-12 m.p.h. Total hours, 7 (2 in car, 3 on horseback, 2 on foot); total miles, 24 (20 in car, 2 on horseback, 2 on foot). Red-tailed Hawk, 6; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 3; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 2; Horned Lark, 11; Blue Jay, 3; Am. Crow, 10; Black-capped Chickadee, 2; Carolina Chickadee, 8; Tufted Titmouse, 15; White-breasted Nuthatch, 2; Bewick's Wren, 1; Carolina Wren, 1; Mockingbird, 1; Eastern Bluebird, 5; Loggerhead Shrike, 1; Meadowlark [sp.], 9; Cardinal, 3; Am. Goldfinch, 4; Slate-colored Junco, 10; Oregon Junco, 1 (black-head, red-brown back, yellowish-tan sides). **Total,** 25 species; 103 individuals.—Betty Eisenmayer (age 13 years).

302. White River National Wildlife Refuge, St. Charles (Arkansas Co.), Ark. (refuge headquarters south and east over bottoms road to levees 1, 2, and 3 in demonstration area, White Lake and Frazer Lake to sub-headquarters at farm unit, and fields and woods south of sub-headquarters returning via road through farm unit and state Route 1 to St. Charles; bottomland hardwoods 40%, farmland and meadow 30%, lakes and bayous 15%, coppice and abandoned fields 10%, lawns and farm sites 5%).—Dec. 28; 7:30 a.m. to 5 p.m. Clear; temp. 36° to 60°; wind variable, S in a.m. turning to NW later in p.m., 5-15 m.p.h.; ground wet and muddy; White River nearly at flood stage, bottoms

approximately 30% flooded. Two observers together. Total hours, 8½; total miles, 13 (6 on foot, 1 by boat, 6 by car). Double-crested Cormorant, 7; Great Blue Heron, 5; Canada Goose, 13; Mallard, 770 (700 est., 70); Black Duck, 1; Pintail, 26; Green-winged Teal, 40; Shoveller, 4; Wood Duck, 2; Ring-necked Duck, 2; Turkey Vulture, 3; Red-tailed Hawk, 10; Golden Eagle, 1; Marsh Hawk, 1; Peregrine Falcon, 1; Sparrow Hawk, 1; Bob-white, 20; Killdeer, 1; Mourning Dove, 38; Horned Owl, 1; Barred Owl, 2; Belted Kingfisher, 3; Yellow-shafted Flicker, 32; Pileated Woodpecker, 5; Red-bellied Woodpecker, 17; Red-headed Woodpecker, 9; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 3; Downy Woodpecker, 4; Eastern Phoebe, 1; Blue Jay, 46; Carolina Chickadee, 70; Tufted Titmouse, 12; Brown Creeper, 4; House Wren, 1; Bewick's Wren, 1; Mockingbird, 8; Brown Thrasher, 13; Robin, 8; Olive-backed Thrush [no details—Ed.], 2; Eastern Bluebird, 10; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 1; Loggerhead Shrike, 4; Starling, 6; English Sparrow, 31; meadowlark [sp.], 55; Red-wing, 4; Purple Grackle, 281 (200 est., 81); Brown-headed Cowbird, 3; Cardinal, 31; Purple Finch, 5; Am. Goldfinch, 14; Savannah Sparrow, 18; Vesper Sparrow, 1; Slate-colored Junco, 38; Field Sparrow, 3; White-throated Sparrow, 81; Song Sparrow, 2. **Total,** 59 species; about 1781 individuals.—Peter J. Van Huizen, Arthur A. Davis.

303. Grand Isle, La. (western two-thirds of the island, adjoining waters of Caminada Bay and Gulf of Mexico, and marshes bordering highway west to Bayou Lafourche and Leeville; open marsh 80%, open water 12%, beaches and mud flats 3%, residential 3%, oak and palmetto scrub 2%).—Dec. 26; 5:15 a.m. to 5:15 p.m. Foggy to clear; temp. 50° to 62°; wind E, 2-12 m.p.h. Total hours in daylight, 11 (3 on foot, 8 in car); total hours in darkness, 1 (in car); total miles in daylight, 104 (6 on foot, 98 by car); total miles in darkness, 12 (by car). Common Loon, 2; Pied-billed Grebe, 7; White Pelican, 273; Brown Pelican, 454; Double-crested Cormorant, 851; Great Blue Heron, 46; Am. Egret, 517; Snowy Egret, 21; Lousiana Heron, 203; Little Blue Heron, 6; Black-crowned Night Heron, 2; Am. Bittern, 1; White Ibis, 9; Mallard, 3; Black Duck, 8; Baldpate, 1; Green-winged Teal, 3; Ring-necked Duck, 2; Lesser Scaup Duck, 231; Red-breasted Merganser, 31; Turkey Vulture, 7; Black Vulture, 1; Cooper's Hawk, 1; Marsh Hawk, 13; Peregrine Falcon, 1; Sparrow Hawk, 38; Clapper Rail, 92; Virginia Rail, 1; Sora, 3; Florida Gallinule, 2; Piping Plover, 2; Semipalmated Plover, 9; Killdeer, 23; Black-bellied Plover, 10; Wilson's Snipe, 4; Greater Yellow-legs, 28; Lesser Yellow-legs, 3; Red-backed Sandpiper, 66; Dowitcher, 1; Western Sandpiper, 90; Sanderling, 17; Herring Gull, 2275 (±100); Ring-billed Gull, 775 (±50); Laughling Gull, 50; Bonaparte's Gull, 2; Forster's Tern, 660; Common Tern, 2; Royal Tern, 124; Caspian Tern, 8; Belted Kingfisher, 85; Fish Crow, 1; House Wren, 1; Carolina Wren, 7; Long-billed Marsh Wren, 24; Mockingbird, 24; Catbird, 1; Brown Thrasher, 1; Ruby-crowned Kinglet, 6; Loggerhead Shrike, 17; Orange-crowned Warbler,

Nathan Fay, Sylvia Fay and Margaret Diemer on Clay County, Missouri, Count.

2; Myrtle Warbler, 35; Yellow-throat, 18; English Sparrow, 24; Eastern Meadowlark, 9; Red-wing, 505; Boat-tailed Grackle, 2375 (±100); Cardinal, 9; Savannah Sparrow, 10; Leconte's Sparrow, 1; Sharp-tailed Sparrow, 2; Seaside Sparrow, 2; Swamp Sparrow, 10. **Total,** 72 species; about 10,148 individuals. (Seen previous day in count area: Shoveller, 1; Yellow-breasted Chat, 1.—John L. Chapin.

304. Sabine Migratory Waterfowl Refuge, La. (that part of eastern section of refuge which can be seen from the Hackberry—Cameron road, south to Gulf of Mexico, east nearly to Cameron, and north nearly to Hackberry; also a section of Calcasieu Pass; coastal prairie 85%, open water 10%, beach and mud flats 3%, dense scrub 2%).—Jan. 1; 6:30 a.m. to 6:30 p.m. Clear; temp. 50° to 65° to 60°; wind E, 5-20 m.p.h. Total hours in daylight, 11 (4 on foot, 4 in rowboat, 3 in car); total hours in darkness, 1 (in car); total miles, 80 (5 on foot, 10 by boat, 65 by car). Pied-billed Grebe, 5; Brown Pelican, 26; Double-crested Cormorant, 13; Great Blue Heron, 10; Am. Egret, 32; Snowy Egret, 36; Lousiana Heron, 2; Little Blue Heron, 16; Black-crowned Night Heron, 1; Canada Goose, 31; Snow Goose, 2942 (±300); Blue Goose, 9829 (±1000) (some of the goose flocks were counted individually, others by groups of 10; estimated error is about 10%); Mallard, 81; Black Duck, 66; Gadwall, 86; Baldpate, 76; Pintail, 46; Green-winged Teal, 4; Shoveller, 7; Lesser Scaup Duck, 60; Am. Golden-eye, 1; Ruddy Duck, 1; Turkey Vulture, 4; Black Vulture, 7; Red-tailed Hawk, 1; Marsh Hawk, 40; Sparrow Hawk, 2; Clapper Rail, 21; Virginia Rail, 1; Sora, 15; Florida Gallinule, 5; Am. Coot, 90; Kildeer, 166; Black-bellied Plover, 5; Wilson's Snipe, 4; Spotted Sandpiper, 1; Greater Yellow-legs, 59; Lesser Yellow-legs, 4; Red-backed Sandpiper, 350 (±35); Dowitcher, 450 (±45); Semipalmated Sandpiper, 1; Western Sandpiper, 150 (±15); Sanderling, 8; Herring Gull, 82; Ring-billed Gull, 102; Laughling Gull, 42; Bonaparte's Gull, 1; Forster's Tern, 17; Royal Tern, 40; Caspian Tern, 16; Belted Kingfisher, 20; Yellow-shafted Flicker, 1; Eastern Phoebe, 5; Tree Swallow, 65; Blue Jay, 8; Fish Crow, 22; Carolina Chickadee, 1; Long-billed Marsh Wren, 12; Short-billed Marsh Wren, 28; Mockingbird, 4; Brown Thrasher, 3; Robin, 2; Blue?gray Gnatcatcher, 10; Ruby-crowned Kinglet, 10; Am. Pipit, 16; Loggerhead Shrike, 32; Starling, 1150 (±100); Solitary Vireo, 1; Black and White Warbler, 1; Orange-crowned Warbler, 1; Myrtle Warbler, 23; Pine Warbler, 1; Yellow-throat, 1; English Sparrow, 35; Eastern Meadowlark, 277; Red-wing, 950 (±100); Boat-tailed Grackle, 416 (±40); Purple Grackle, 2; Brown-headed Cowbird, 7; Cardinal, 6; Am. Goldfinch, 1; Savannah Sparrow, 45; Swamp Sparrow, 68. **Total,** 83 species; about 18,279 individuals. (Seen in or adjacent to count area on Dec. 31: White Pelican, 95; Glossy Ibis, 1; Peregrine Falcon, 1; Mourning Dove, 1.)—John L. Chapin.

305. St. Francisville, La. (south near Mississippi River to Port Hudson, pine forest east of town, lower end of Thompson Creek, east bank of False River to Grand Lake and north along Mississippi River levee to St. Francisville ferry; lake shore 25%, marsh 2%, deciduous bottomland 20%, hardwood upland 30%, pine forest 8%, open fields 15%).—Dec. 26; 4:30 a.m. to 6 p.m. Overcast; temp. 56° to 63°; wind ESE, 2-10 m.p.h. Thirteen observers in 4 parties. Total hours in daylight, 45 (27 in car, 18 on foot); total hours in darkness, 4; total miles in daylight, 68 (19 on foot, 49 by car); total miles in darkness, 30 (in car). Common Loon, 1; Horned Grebe, 25; Pied-billed Grebe, 12; White Pelican, 1; Double-crested Cormorant, 520 (500 est., 20); Great Blue Heron, 4; Little Blue Heron, 1; Mallard, 14; Wood Duck, 2; Ring-necked Duck, 10; Canvas-back, 500 (est.); Greater Scaup Duck, 1; Lesser Scaup Duck, 218 (including possibly additional Greater Scaups); Am. Golden-eye, 25; Buffle-head, 25; Ruddy Duck, 500 (est.); Turkey Vulture, 6; Black Vulture, 90; Sharp-shinned Hawk, 2; Cooper's Hawk, 1; Red-tailed Hawk, 14; Red-shouldered Hawk, 6; Bald Eagle, 1; Marsh Hawk, 6; Sparrow Hawk, 23; Bob-white, 12; Virginia Rail, 1 (Krebs, Moores); Sora, 2; Am. Coot, 200; Killdeer, 86; Am. Woodcock, 2; Wilson's Snipe, 24; Spotted Sandpiper, 1 (Krebs, Moores); Least Sandpiper, 30; Semipalmated or Western Sandpiper, 50; Herring Gull, 6; Ring-billed Gull, 12; Laughing Gull, 1; Bonaparte's Gull, 12; Forster's Tern, 4; Mourning Dove, 9; Screech Owl, 2; Horned Owl, 6; Barred Owl, 23; Belted Kingfisher, 9; Yellow-shafted Flicker, 57; Pileated Woodpecker, 2; Red-bellied Woodpecker, 54; Red-headed Woodpecker, 20; Yellow-bellied Sapsucker, 12; Hairy Woodpecker, 5; Downy Woodpecker, 42; Eastern Phoebe, 65; Tree Swallow, 15; Blue Jay, 86; Am. Crow, 165; Fish Crow, 93; Carolina Chickadee, 167; Tufted Titmouse, 78; Brown Creeper, 1; House Wren, 31; Winter Wren, 5; Bewick's Wren, 3; Carolina Wren, 122; Long-billed Marsh Wren, 1; Short-billed Marsh Wren, 11; Mockingbird, 86; Catbird, 1; Brown Thrasher, 73; Robin, 725; Hermit Thrush, 13; Eastern Bluebird, 304; Blue-gray Gnatcatcher, 3; Ruby-crowned Kinglet, 177; Am. Pipit, 80; Cedar Waxwing, 97; Loggerhead Shrike, 35; Starling, 210; White-eyed Vireo, 3; Solitary Vireo, 3; Orange-crowned Warbler, 12; Myrtle Warbler, 890; Pine Warbler, 26; Yellow-throat, 5; English Sparrow, 68; Eastern Meadowlark, 108; Red-wing, 993; Rusty Blackbird, 8; Brewer's Blackbird, 53; Purple Grackle, 115; Cardinal, 285; Purple Finch, 5; Am. Goldfinch, 57; Eastern Towhee, 79; Savannah Sparrow, 63; Leconte's Sparrow, 1; Vesper Sparrow, 57; Pine-woods Sparrow, 1; Slate-colored Junco, 8; Chipping Sparrow, 33; Field Sparrow, 87; White-throated Sparrow, 460; Fox Sparrow, 30; Swamp Sparrow, 46; Song Sparrow, 28. **Total,** 105 species; about 8862 individuals.—Samuel A. Arny, Jas. Hy. Bruns, Robert and Juanita Krebs, George H. Lowery, Jr., Laura Moore, Robert and Mary Ann Moore, O. F. Moore, J. Harvey Roberts, Albert N. Robinson, Charles Shaw, Herbert Stern.

306. Slidell, La. (Fountainbleau State Park; Bayou Lacombe from Oaklawn to Lake Pontchartrain; lake shore south of Lacombe; cut-over pine land south of Hwy. 190 near Slidell; Howze Beach Lagoon at Slidell).—Dec. 26; 9 a.m. to 4 p.m. Heavy fog in early a.m. and late p.m., otherwise clear to moderately overcast; temp. 55° to 65°; wind E to NE. Six observers in 2 parties. Total hours, 28 (10 on foot, 16 in car, 2 in boat); total miles, 92 (18 on foot, 66 by car, 8 in boat). Pied-billed Grebe, 15; Brown Pelican, 11; Double-crested Cormorant, 6; Great Blue Heron, 13; Am. Egret, 12; Black Duck, 2; Baldpate, 200; Blue-winged Teal, 1; Redhead, 1; Canvas-back, 2; Scaup Duck [sp.], 35; Turkey Vulture, 4; Black Vulture, 7; Sharp-shinned Hawk, 1; Red-shouldered Hawk, 1; Bald Eagle, 2; Sparrow Hawk, 5; Am. Coot, 1000; Killdeer, 6; Wilson's Snipe, 12; Herring Gull, 2; Ring-billed Gull, 30; Forster's Tern, 20; Royal Tern, 15; Mourning Dove, 8; Belted Kingfisher, 1; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 15; Hairy Woodpecker, 10; Downy Woodpecker, 21; Red-cockaded Woodpecker, 4; Eastern Phoebe, 9; Tree Swallow, 100; Blue Jay, 6; Am. Crow, 43; Fish Crow, 10; Carolina Chickadee, 48; Tufted Titmouse, 30; Brown-headed Nuthatch, 8; Brown Creeper, 5; House Wren, 2; Carolina Wren, 12; Mockingbird, 10; Catbird, 2; Brown Thrasher, 4; Robin, 25; Hermit Thrush, 1; Eastern Bluebird, 60; Blue-gray Gnatcatcher, 4; Golden-crowned Kinglet, 6; Ruby-crowned Kinglet, 75; Am. Pipit, 40; Loggerhead Shrike, 13; Solitary Vireo, 4; Orange-crowned Warbler, 4; Myrtle Warbler, 1000; Pine Warbler, 22; Yellow-throat, 2; English Sparrow, 10; Eastern Meadowlark, 16; Red-wing, 10; Boat-tailed Grackle, 5; Cardinal, 12; Am. Goldfinch, 20; Eastern Towhee, 4; Slate-colored Junco, 6; Chipping Sparrow, 1; White-crowned Sparrow, 12; White-throated Sparrow, 12; Swamp Sparrow, 8. **Total,** 72 species; about 3146 individuals.—Donald Bradburn, Rose Feingold, Thomas Howell, Stuart Landry, Jr., Buford Myers, Rena Wilson.

307. Bismarck, N. Dak. (center of town to point 5 miles north along Missouri River bottomland; return through upland prairies; center of town to point 5 miles south; riverbottom timberland 40%, bottomland field edges 30%, upland prairies 23%, marsh 2%, urban 5%).—Dec. 26; 9 a.m. to 5 p.m. Partly cloudy to clear; temp. 7° to 25° to 14°; wind NE to SW, 3-7 m.p.h.; ground covered with 5-in. snow; no open water. Three observers together. Total hours, 8 (4 on foot, 4 in car); total miles, 45 (5 on foot, 40 in car). Rough-legged Hawk, 2; Sharp-tailed Grouse, 36; Ring-necked Pheasant, 98; Long-eared Owl, 1; Yellow-shafted Flicker, 2; Hairy Woodpecker, 1; Downy Woodpecker, 6; Horned Lark, 50 (est.); Blue Jay, 2; Am. Magpie, 12; Black-capped Chickadee, 53; White-breasted Nuthatch, 4; Northern Shrike, 2; Starling, 23; English Sparrow, 144; Common Redpoll, 30 (est.); Pine Siskin, 6; Slate-colored Junco, 2; Tree Sparrow, 70 (est.); Snow Bunting, 75 (est.). **Total,** 20 species; about 619 individuals.—R. N. Randall, R. L. Bagwell, D. B. Vogtman.

[Bruce Harris, Alice Latimer, Bill McKean, Jr., and Russell Reid made a 7½-hour count in the same area on Dec. 31 and recorded the following additional species: Prairie Falcon, 1; European Partridge, 6; Am. Crow, 12; Am. Goldfinch, 1. **Total,** 15 species; 302 individuals.]

308. Des Lacs National Wildlife Refuge, Kenmare, N. Dak. (town of Kenmare and adjacent fields, Tasker's Coulee, Des Lacs valley including Lower, Middle, and 5 miles along Upper Des Lacs Lake; open fields 50%, wooded coulees and lake shore 50%).—Dec. 26; 8:30 a.m. to 5:30 p.m. Clear; temp. 10° at start, 10° at return; no wind; ground covered with 6-in. snow on the level. Four observers together. Total hours, 9 (4 on foot, 5 by car); total miles, 58 (8 on foot, 50 by car). Golden Eagle, 1; Sharp-tailed Grouse, 20; European Partridge, 17; Ring-necked Pheasant, 2; Horned Owl, 2; Snowy Owl, 2; Short-eared Owl, 2; Horned Lark, 3; Am. Magpie, 21; Black-capped Chickadee, 21; White-breasted Nuthatch, 1; Bohemian Waxwing, 3; Northern Shrike, 1; Starling, 9; English Sparrow, 137; Snow Bunting, 5000 (est.). **Total,** 16 species; about 5242 individuals. (Seen in area Jan. 1, Common Redpoll, 5.)—George Bodmer, Robert Gross, Dr. and Mrs. R. T. Gammell.

309. Lower Souris National Wildlife Refuge, Upham (McHenry Co.), N. Dak. (refuge headquarters to Upham, thence east across marsh to riverbottom between Dam 1 and Willow Creek; more coverage than last year, as snow no problem; marsh 33%, meadows 33%, wooded riverbottom 34%).—Dec. 30; 9 a.m. to 4 p.m. Clear; temp. 27° to 0°; calm until 11:45 a.m. then NW wind with blowing snow, 25 m.p.h.; at 2:45 p.m. light snowfall; snow averaged 10 in. deep. Three observers together. Total hours, 7; total miles, 40 (30 by car, 10 on foot). Sharp-tailed Grouse, 14; Ring-necked Pheasant, 11; Snowy Owl, 1; Short-eared Owl, 1; Hairy Woodpecker, 1; Downy Woodpecker, 3; Horned Lark, 1; Blue Jay, 1; Am. Magpie, 3; Black-capped Chickadee, 14; White-breasted Nuthatch, 4; Bohemian Waxwing, 17; English Sparrow, 132; Tree Sparrow, 7; Snow Bunting, 181 (100 est., 81). **Total,** 15 species; about 391 individuals. (Seen at headquarters area same date, but not by party, Mallard, 40; seen in area Dec. 31, European Partridge, 8.)—Donald V. Gray, Merrill Hammond, Grady Mann.

310. Canton, S. Dak. (center of city to 7 miles north, south, east, and west; home feeding station, Sioux River, Newton Hills, and farm areas; open farmland 45%, town and suburbs 15%, deciduous wooded areas 40%).—Dec. 26; 9 a.m. to 4 p.m. Clear; temp. 10° to 25°; wind S, 8-12 m.p.h.; ground mostly bare with some snow banks; all water frozen except few open spots in Sioux River. Five observers together most of time. Total hours,

7 (on foot and in car); total miles, 60. Goshawk, 1; Rough-legged Hawk, 3; Ring-necked Pheasant, 25; Barred Owl, 1; Yellow-shafted Flicker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 2; Blue Jay, 2; Am. Crow, 10; Black-capped Chickadee, 6; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 1; Brown Creeper, 3; Starling, 35; English Sparrow, 100; Cardinal, 9; Slate-colored Junco, 11. **Total,** 17 species; about 214 individuals.—Mr. and Mrs. W. B. Mallory, Paul W. Mallory, Avery Mallory, Franklin Mallory.

311. Lacreek National Wildlife Refuge, Martin (Bennett Co.), S. Dak. (refuge headquarters north and east to 10 spillway and north boundary, south to willow thickets near southern boundary, same route as previous year plus section of trail and adjacent area in northeast corner of refuge; marsh and reservoir 50%, meadow 45%, willow thickets 5%).—Dec. 26; 7 a.m. to 4 p.m. Partly overcast; temp. 21° to 34°; wind NW, 6-12 m.p.h.; trace of snow; open water below spillways. Total hours, 9; total miles, 21 (17 by car, 4 on foot). Mallard, 16,406 (16,000 est., 406); Canvas-back, 1; Am. Golden-eye, 14; Hooded Merganser, 1; Rough-legged Hawk, 18; Golden Eagle, 6; Bald Eagle, 2; Marsh Hawk, 8; Sharp-tailed Grouse, 49; Ring-necked Pheasant, 50; Horned Owl, 4; Short-eared Owl, 4; Hairy Woodpecker, 1; Downy Woodpecker, 1; Horned Lark, 265 (200 est., 65); Am. Magpie, 8; Tree Sparrow, 14. **Total,** 17 species; about 16,852 individuals. (Seen in area Dec. 20, Snowy Owl, 1.) —Kenneth Krumm.

312. Sand Lake National Wildlife Refuge, Columbia (Brown Co.), S. Dak. (refuge headquarters north and east to Mud Lake dike, northward over ice to open water hole, north and eastward along west refuge trail to Hecla grade, southward from Hecla grade along east refuge trail to Columbia dam and south end of refuge; marsh and open ice 30%, open upland prairie 40%, woodlots and windbreaks 30%).—Dec. 26; 9 a.m. to 5 p.m. Cloudy and clear at intervals; temp. 10° to 20°; wind S, 3-8 m.p.h.; snow averaging 2 in. deep; open water only at a few water holes and flowing wells. Three observers together. Total hours, 8; total miles, 28 (26 by car, 2 on foot). Canada Goose, 2 (Lesser, 1); Snow Goose, 1; Mallard, 525; Rough-legged Hawk, 8; European Partridge, 9; Ring-necked Pheasant, 2305; Horned Owl, 2; Snowy Owl, 4; Downy Woodpecker, 1; Horned Lark, 3; Am. Magpie, 1; Black-capped Chickadee, 11; Robin, 1; Starling, 35; Red-wing, 50; Brewer's Blackbird, 1; English Sparrow, 49; Tree Sparrow, 60; Snow Bunting, 12. **Total,** 19 species; about 3069 individuals.—Jerry Podoll, Elmer Podoll, C. Rollings.

313. Sioux Falls, S. Dak. (circle of 7½-mile radius about southeastern corner Section 2-101-49, on old Brandon Road; deciduous wooded valleys 75%, brushy drainage ditch and adjacent highways 15%, town, parks, cemeteries, and suburbs 5%, farmland 5%).—Dec. 26; 9 a.m. to 5 p.m. Clear to partly cloudy; temp. 8° to 26°; wind SSE, 20-10 m.p.h.; ground bare except for small amount of crusted snow in sheltered places; ponds frozen, few open places in streams. Thirty observers in 7 parties. Total hours, 26½; total miles, 160½ (116 in autos, 44½ on foot). Mallard, 131; Red-tailed Hawk, 1; Rough-legged Hawk, 3; Marsh Hawk, 1; Sparrow Hawk, 2; Bob-white, 9; European Partridge, 7; Ring-necked Pheasant, 126; Rock Dove, 182 (150 est., living on walls of abandoned quarry); Mourning Dove, 200 (est.); Barn Owl, 1; Screech Owl, 1; Horned Owl, 2; Long-eared Owl, 1; Yellow-shafted Flicker, 23; Hairy Woodpecker, 27; Downy Woodpecker, 106; Blue Jay, 3; Am. Crow, 98; Black-capped Chickadee, 370; White-breasted Nuthatch, 45; Red-breasted Nuthatch, 3; Brown Creeper, 17; Brown Thrasher, 1 (J.S.F., S.A.K., R.E.); Robin, 1; Eastern Bluebird, 3; Bohemian Waxwing, 1; Cedar Waxwing, 7; Starling, 182; English Sparrow, 700 (est.); Cardinal, 31; Red Crossbill, 7; Eastern Towhee, 1; Slate-colored Junco, 82; Tree Sparrow, 12; White-throated Sparrow, 2; Chestnut-collared Longspur, 100 (est.—J.D.D.). **Total,** 37 species; about 2489 individuals.—Verl Butts, Mr. and Mrs. H. F. Chapman, Dr. and Mrs. John D. Donahoe, Iver Eide, Peter Eide, Ray Elliott, Mr. and Mrs. J. S. Findley, Mr. and Mrs. George Goebel, Bill Goebel, Mrs. S. A. Keller, Mrs. C. L. Kraemer, John Marshman, Mr. and Mrs. Charles H. Rogge, Janet Rogge, Mr. and Mrs. A. N. Shafer, Patricia and Wendell Shafer, Mrs. T. M. Sheean, Charles Stringham, LeRoy Tabbert, Ronald Vosacek, Mr. and Mrs. Mark Wilson, David Wilson (Sioux Falls Bird Club).

314. Crescent Lake National Wildlife Refuge (Garden Co.), Nebr. (refuge headquarters north to north boundary, west to Swan Lake, south to Blue Lake, east to Hackberry, south to Island Lake, east to Crane Lake and return via Roundup Lake over west sandhills trails; open meadow 40%, frozen marsh 15%, frozen ponds 15%, rolling sandhills 30%).—Jan. 1; 8 a.m. to 4:30 p.m. Heavy clouds; temp. 10° to 55°; wind SSW, 15-25 m.p.h.; snow averaging 1 in. Total hours, 8½; total miles, 39 (by car). Rough-legged Hawk, 9; Marsh Hawk, 7; Greater Prairie Chicken, 41; Sharp-tailed Grouse, 27; Ring-necked Pheasant, 7; Horned Owl, 4; Short-eared Owl, 2; Downy Woodpecker, 4; Horned Lark, 1200 (841 count, bal. est.); Am. Magpie, 17; Western Meadowlark, 5; English Sparrow, 22; Tree Sparrow, 67; Oregon Junco (Pink-sided), 11. **Total,** 14 species; about 1423 individuals.—Charles A. Keefer.

315. Crete, Nebr. (wooded areas along creeks south of town, along flood plain of Big Blue River, and prairies; creek bottoms 35%, flood plain 35%, prairies 29%, residential area 1%).—Dec. 26; 8:30 a.m. to 4:30 p.m. Clear; temp. 1° to 29°; wind S to SE, 5-15 m.p.h.; ground covered with 1.8-in. snow; 80% of river frozen. Two observers together. Total hours, 7; total miles, 20 (10 on foot, 10 in car). Rough-legged Hawk, 1; Bald Eagle, 1; Marsh Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant,

4; Horned Owl, 1; Yellow-shafted Flicker, 3; Red-bellied Woodpecker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 7; Blue Jay, 1; Am. Crow, 31; Black-capped Chickadee, 49; Brown Creeper, 2; Ruby-crowned Kinglet, 1 (also seen on several occasions prior to count date); Northern Shrike, 2; Starling, 13; English Sparrow, 103; Western Meadowlark, 1; Cardinal, 4; Am. Goldfinch, 32; Slate-colored Junco, 7; Tree Sparrow, 30; Song Sparrow, 1. **Total,** 24 species; 299 individuals.—J. L. C. Rapp, W. F. Rapp, Jr.

316. Fremont, Nebr. (Ridge and Memorial cemeteries, Wild Wood Park, country roads, fields, across Platte River bridge into Saunders County; Woods, deciduous and coniferous woods 85%, fields 5%, country roads 10%).—Dec. 28; 8 a.m. to 3:30 p.m. Clear and sunny; temp. 22° to 45°; ground clear; wind S, mild. Total hours, 8½; total miles, 15 (on foot and in car). Marsh Hawk, 1; Bobwhite, 5; Ring-necked Pheasant, 3; Screech Owl, 1; Yellow-shafted Flicker, 1; Red-bellied Woodpecker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 3; Blue Jay, 1; Am. Crow, 25; Black-capped Chickadee, 35; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 1; Brown Creeper, 3; Robin, 2; Eastern Bluebird, 10; Cedar Waxwing, 10; English Sparrow, 60; Purple Grackle, 1; Cardinal, 5; Slate-colored Junco, 30; Tree Sparrow, 22. **Total,** 22 species; 224 individuals.—Mrs. Lily Ruegg Button.

317. Grand Island, Nebr. (center of town to point 3 miles south, Platte Deutsche Sandpit, cemetery, Wood River, also 6 miles east of town to Central Power area on Platte River; deciduous area 25%, pine and deciduous area 45%, deciduous woodlands 30%).—Dec. 30; 8:30 a.m. to 5:30 p.m. Cloudy, clearing between 4 and 5:30 p.m.; temp. 26° to 51°; wind SSW, 1-7 m.p.h.; ground bare; all fresh water frozen in a.m., melting in p.m. Two observers together. Total miles, 30 (7 on foot, 23 in car). Blue-winged Teal, 12 [no details—Ed.]; Cooper's Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 3; Yellow-shafted Flicker, 9; Red-shafted Flicker, 6; Hairy Woodpecker, 5; Downy Woodpecker, 10; Am. Crow, 58; Black-capped Chickadee, 60; Red-breasted Nuthatch, 5; Brown Creeper, 5; Robin, 8; Eastern Bluebird, 4; Golden-crowned Kinglet, 5; Cedar Waxwing, 8; Starling, 27; English Sparrow, 90; Purple Grackle, 1; Cardinal, 10; Pine Siskin, 5; Am. Goldfinch, 8; Slate-colored Junco, 7; Tree Sparrow, 14; Harris's Sparrow, 4. **Total,** 26 species; 362 individuals.—Ethel M. Houser, Verneil E. Griffin.

318. Hastings, Nebr. (north part of town, 11 miles south; Crystal Lake area and woodlands along Little Blue River, adjoining fields, 5 miles northeast of town, parks and Parkview Cemetery).—Dec. 29; 9 a.m. to 5 p.m. Clear; temp. 15° to 47°; lake frozen, much running water in river. Ten observers in 4 parties. Total hours, 8. Mallard, 1; Marsh Hawk, 3; Sparrow Hawk, 2; Ring-necked Pheasant, 9; Sora, 1 [no details—Ed.]; Mourning Dove, 21; Belted Kingfisher, 4; Yellow-shafted Flicker, 5; Red-shafted Flicker, 1; Red-bellied Woodpecker, 5; Hairy Woodpecker, 5; Downy Woodpecker, 20; Horned Lark, 13; Am. Magpie, 2; Am. Crow, 17; Black-capped Chickadee, 38; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 3; Brown Creeper, 3; Robin, 7; Golden-crowned Kinglet, 1; Starling, 300 (est.); English Sparrow, 41; Western Meadowlark, 2; Red-wing, 25; Brown-headed Cowbird, 15; Cardinal, 9; Pine Siskin, 2; Am. Goldfinch, 21; Slate-colored Junco, 8; Oregon Junco, 1; Tree Sparrow, 500 (est.); Harris's Sparrow, 10; Song Sparrow, 2. **Total,** 34 species; about 1099 individuals.—Vera Maunder, Geraldine Heartwell, Mrs. C. E. Ruch, Mrs. A. M. Jones, Mrs. J. M. Davis, Mrs. A. M. Brooking, W. E. Eigsti, Burton Nelson, Garland Baker, Mrs. A. H. Jones (Brooking Bird Club).

319. Lincoln, Nebr. (intersection Cotner Blvd. and Adams St., east 3 miles to Stevens' Creek bridge; north along Stevens' Creek on Kinny farm to Rock Island railroad bridge and return to road bridge; Copple farm south of Holdredge St.; M. L. Johnson farm woodlot ¼ mile east, ¼ mile south of Stevens' Creek bridge on Adams St. road; Havelock Fairview Cemetery on Adams St. road, adjacent field windbreak, and return; grassy roadsides bordered by native shrubs, trees, and farmstead windbreaks 12%, mixed deciduous woodland (50% grazed) 61%, stream 12%, coniferous plantings—cemetery 6%, mixed deciduous-coniferous field windbreak 6%).—Jan. 1; 7:15 a.m. to 5:20 p.m. Cloudy and overcast; temp. 39° at start, 43° at 1 p.m., 42° at 5:20 p.m.; wind N, 3-15 m.p.h.; no snow; Stevens' Creek open and flowing. Five observers, 2 afoot 2½ hours; 4 afoot 1½ hours; 3 afoot 3 hours. Total hours, 9½ (7 on foot, 2½ in car); total miles, 19 (7 on foot, 12 in car). Cooper's Hawk, 1; Red-tailed Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 2; Horned Owl, 2; Short-eared Owl, 2; Yellow-shafted Flicker, 5; Red-bellied Woodpecker, 3; Hairy Woodpecker, 8; Downy Woodpecker, 22; Blue Jay, 1; Am. Crow, 42; Black-capped Chickadee, 40; Tufted Titmouse, 3; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 1; Brown Creeper, 6; Starling, 8; English Sparrow, 264; Cardinal, 17; Am. Goldfinch, 19; Slate-colored Junco, 50; Tree Sparrow, 45; Harris's Sparrow, 11. **Total,** 25 species; 557 individuals. (One Golden-crowned Kinglet and 1 Brown Thrasher seen in Lincoln.)—Adrian C. Fox, Doris Gates, Mrs. Dwight P. Thomas, Mrs. Orion E. Jerner, H. Baumgerten (University Place Bird Club).

320. Nebraska National Forest, Bessy Division (Thomas Co.), Nebr. (both south and north sides of forest nursery, up Middle Loup River to brush and trees east of Besley ranch, southwest to 1940 burned area, east to firebreak, northeast to nursery; pine woodland 70%, meadow 20%, brush 10%).—Dec. 25; 8:45 a.m. to 4 p.m. Partly cloudy; temp. 10° to 20°; wind N, 5-10 m.p.h.; 2-in. snow on north slope. Total hours, 7½; total miles, 8 (on

foot). Rough-legged Hawk, 1; Ring-necked Pheasant, 2; Sharp-tailed Grouse, 2; Horned Owl, 1; Yellow-shafted Flicker, 1; Hairy Woodpecker, 1; Am. Crow, 6; Am. Magpie, 2; Black-capped Chickadee, 6; Red-breasted Nuthatch, 1; Cedar Waxwing, 12; Robin, 93; Townsend's Solitaire, 7 [6 observed through 6X30 binoculars, all in plain view; 1 on telephone wire overhead]; Evening Grosbeak, 18; Purple Finch, 2; Pine Siskin, 4; Am. Goldfinch, 26; Slate-colored Junco, 24; Tree Sparrow, 33. **Total,** 19 species; 242 individuals.—Carl E. Smith.

321. Omaha, Nebr. (including Lake Manawa, abandoned heronry, and a great deal of farmland across river in Iowa; north to Irvington and Hummel Park, Forest Lawn Cemetery, west to suburb of Ralston, Holy Sepulchre Cemetery, West Omaha, south to and including Fontenelle Forest; cemeteries of somewhat open mixed deciduous and coniferous plantings and natural stream 5%, urban and suburban Omaha 10%, city parks 5%, deciduous forest 35%, farmland and lakes 45%).—Dec. 29; 8 a.m. to 5 p.m. Mostly clear; temp. 17° to 43°; wind S to SE, 8-9 m.p.h.; river low but mostly open with some ice floes, streams mostly frozen, Lake Manawa had some open water in center, some patches of unmelted snow. Seven observers in 5 parties. Total hours, 36 (16 in cars, 20 on foot); total miles, 90 (60 in car, 30 on foot). Mallard, 11; Am. Merganser, 44; Red-tailed Hawk, 6; Red-shouldered Hawk, 1; Rough-legged Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 1; Screech Owl, 1; Horned Owl, 1; Barred Owl, 1; Yellow-shafted Flicker, 15; Red-bellied Woodpecker, 13; Hairy Woodpecker, 11; Downy Woodpecker, 56; Blue Jay, 12; Am. Crow, 51; Black-capped Chickadee, 128; Tufted Titmouse, 9; White-breasted Nuthatch, 22; Red-breasted Nuthatch, 4; Brown Creeper, 5; Eastern Bluebird, 4; Starling, 127 (est.); English Sparrow, 637; Cardinal, 55; Pine Siskin, 1; Am. Goldfinch, 42; Slate-colored Junco, 74; Tree Sparrow, 36; Harris's Sparrow, 1. **Total,** 31 species; about 1372 individuals.—R. Allyn Moser, Mary Ellsworth, Mary Perkins, Augusta Galley, Mary Ferguson, William Ferguson, Joe Armstrong.

322. Scottsbluff, Nebr. (Riverside Park, Hunt's woodland south of Riverview Golf Club, ½ mile north between Platte River and golf grounds, roadside along east side of grounds 1 mile north then east of town; deciduous woodland 80%, river bank 10%).—Dec. 29; 8 a.m. to 4 p.m. Clear; temp. 25° to 55°; wind, less than 1 m.p.h.; ponds frozen; river open. Three observers together. Total hours, 7 (5 on foot, 2 in car); total miles, 20 (5 on foot, 15 in car). Western Grebe, 12 [no details—Ed.]; Mallard, 8; Marsh Hawk, 1; Ring-necked Pheasant, 4; Killdeer, 3; Red-shafted Flicker, 4; Hairy Woodpecker, 1; Downy Woodpecker, 3; Am. Magpie, 12; Black-capped Chickadee, 10; Starling, 15; English Sparrow, 15; meadowlark [sp.], 15; Red-wing, 115; Tree Sparrow, 50. **Total,** 15 species; 268 individuals.—Mrs. Carl Franzen, Blanche Weaver, Mary Ann Wake.

323. Baldwin, Kans. (south edge of town to point 13 miles northwest, Lone Star Lake; open farmland 20%, town suburbs 20%, deciduous farm woodlots 40%, lake shore 20%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Clear; temp. 17° to 26°; wind SW, 2-4 m.p.h.; water frozen except a few open spots in middle of Lone Star Lake. Nine observers in 2 parties. Total hours, 48 (22 on foot, 26 by car); total miles, 90 (15 on foot, 75 by car). Cooper's Hawk, 1; Red-tailed Hawk, 25 (including Krider's, 1); Harlan's Hawk, 5; Rough-legged Hawk, 1; Marsh Hawk, 9; Sparrow Hawk, 6; Bob-white, 6; Mourning Dove, 22; Horned Owl, 6; Barred Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 11; Red-shafted Flicker, 1; Red-bellied Woodpecker, 10; Hairy Woodpecker, 10; Downy Woodpecker, 24; Horned Lark, 95; Blue Jay, 18; Am. Crow, 92; Black-capped Chickadee, 73; Tufted Titmouse, 36; White-breasted Nuthatch, 2; Brown Creeper, 2; Winter Wren, 1; Carolina Wren, 8; Mockingbird, 3; Robin, 6; Eastern Bluebird, 14; Golden-crowned Kinglet, 1; Northern Shrike, 1; Loggerhead Shrike, 5; Starling, 167; English Sparrow, 190; Eastern Meadowlark, 178; Cardinal, 94; Purple Finch, 8; Am. Goldfinch, 21; Spotted Towhee, 1; Slate-colored Junco, 82; Tree Sparrow, 96; Harris's Sparrow, 68; White-crowned Sparrow, 24; Song Sparrow, 11; Lapland Longspur, 75. **Total,** 44 species; 1511 individuals. (Seen in area Jan. 1: Red-breasted Nuthatch, 4; Bewick's Wren, 1; Yellow-bellied Sapsucker, 1; Fox Sparrow, 1; geese [sp.], 25.)—Amelia Betts, Clara Beach, Mrs. Geo. Boicourt, Mr. and Mrs. Ivan L. Boyd, Mr. and Mrs. T. A. Evans, Katharine Kelley, R. F. Miller (Baldwin Bird Club).

324. Lawrence, Kans. (center of 15-mile circle at Brackett school 2 miles west of city; northeast 7½ miles to University of Kansas Natural History Reservation, northwest 7½ miles by Lakeview Lake and along Kansas River to Lecompton, Kans., south 5 miles to Wakarusa River; open farmland 45%, town suburbs 10%, deciduous farm woodlots 25%, pasture and grassland 10%, water front 10%).—Dec. 26; 8 a.m. to 5 p.m. Clear; temp. 16° to 32° to 26°; wind S, 1-7 m.p.h.; ground covered with 1-3-in. crusted snow; all water frozen except parts of Kansas River, Wakarusa River, and Lakeview Lake. Six observers together. Total hours, 42 (18 on foot, 24 in car); total miles, 105 (12 on foot, 93 by car). Mallard, 500 (est.); Black Duck, 2; Pintail, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 11; Harlan's Hawk, 2; Rough-legged Hawk, 1; Marsh Hawk, 3; Sparrow Hawk, 6; Bob-white, 16; Killdeer, 1; Mourning Dove, 31; Horned Owl, 3; Yellow-shafted Flicker, 10; Red-bellied Woodpecker, 7; Hairy Woodpecker, 4; Downy Woodpecker, 11; Horned Lark, 9; Blue Jay, 15; Am. Crow, 49; Black-capped Chickadee, 35; Tufted Titmouse, 4; Brown Creeper, 4; Robin, 34; Eastern Bluebird, 1; Cedar Waxwing, 16; Loggerhead Shrike, 2; Starling, 346; English Sparrow, 132; Meadowlark (sp.), 17; Cardinal, 56; Am. Goldfinch, 2; Spotted Towhee, 2; Leconte's Sparrow, 4

(seen at 6-8 ft.—J.W.B.); Slate-colored Junco, 80; Oregon Junco, 3 (seen from 20 ft. at feeding station, daily visitors); Tree Sparrow, 41; Field Sparrow, 1; Harris's Sparrow, 4; White-crowned Sparrow, 2; Song Sparrow, 27. **Total,** 42 species; about 1498 individuals.—James W. Bee, Mr. and Mrs. Bert S. Chewning, Henry S. Fitch, R. W. Fredrickson, Wayne L. Reeve.

325. Newton, Kans. (along Sand Creek to point 5 miles north, east to road and south along hedges; wooded creek 50%, open farmland 20%, hedgerows 25%, ungrazed upland woods 5%).—Dec. 30; 7:30 a.m. to 4:30 p.m. Cloudy; temp. 41° to 50°; wind S, 5-20 m.p.h.; ground not frozen, partially covered with snow; creek open, ponds frozen. Three observers together. Total hours, 9; total miles, 15 (on foot). Cooper's Hawk, 1; Rough-legged Hawk, 5; Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 5; Herring Gull, 1; Mourning Dove, 2; Horned Owl, 4; Yellow-shafted Flicker, 3; Red-bellied Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 9; Horned Lark, 442 (300 est., 142); Blue Jay, 2; Am. Crow, 69; Black-capped Chickadee, 47; Tufted Titmouse, 8; Robin, 5; Starling, 17; English Sparrow, 94; meadowlark [sp.], 21; Cardinal, 49; Am. Goldfinch, 7; Slate-colored Junco, 25; Tree Sparrow, 68; Harris's Sparrow, 82; Song Sparrow, 8; Lapland Longspur, 3. **Total,** 28 species; about 983 individuals. (Several representative species, notably Northern Shrike, Red-shafted Flicker, and Red-tailed Hawk, were not found.)—Roy Henry, J. Rich, D. Platt.

326. Topeka Kans. (Lake Shawnee area, Washburn University campus, Gage Park, Edgewood Park, Security Benefit Grounds, Shunganunga Creek from area south of campus to Gage Blvd., timber 1½ miles west of southwestern corner Security Benefit Grounds; lake shore 30%, open farmland 50%, mixed woodlots 15%, grassland 4%, evergreens 1%).—Dec. 26; 8 a.m. to dusk. Fair; temp. 18° to 25°; wind S, 15 m.p.h.; ground covered with 4-in. snow and sleet; water frozen except riffles and 1% of Lake Shawnee. Ten observers in 4 parties. Total hours, 46 (28 on foot, 18 by car); total miles, 60 (20 on foot, 40 by car). Mallard, 800; Gadwall, 5; Baldpate, 4; Pintail, 3; Ring-necked Duck, 3; Lesser Scaup Duck, 4; Am. Golden-eye, 7; Buffle-head, 1; Am. Merganser, 150; Sharp-shinned Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 1; Bob-white, 14; Am. Coot, 9; Horned Owl, 3; Barred Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 4; Red-bellied Woodpecker, 4; Hairy Woodpecker, 3; Downy Woodpecker, 12; Blue Jay, 17; Am. Crow, 24; Black-capped Chickadee, 97; Tufted Titmouse, 22; Red-breasted Nuthatch, 2; Brown Creeper, 9; Winter Wren, 1; Robin, 25; Eastern Bluebird, 3; Golden-crowned Kinglet, 1; Cedar Waxwing, 62; Starling, 117; English Sparrow, 570; Eastern Meadowlark, 13; Cardinal, 66; Am. Goldfinch, 5; Red Crossbill, 12; Slate-colored Junco, 206; Oregon Junco, 1 (observed in good light at about 75 ft. with 6X and 9X glasses—E.M.N., P.M., P.F.); Tree Sparrow, 15; Harris's Sparrow, 12; Fox Sparrow, 1; Lincoln's Sparrow, 1; Song Sparrow, 9. **Total,** 45 species; 2322 individuals. (Seen in area Jan. 1, Black Duck, 1; Red-tailed Hawk, 1; Yellow-bellied Sapsucker, 1; Horned Lark, 25; Carolina Wren, 3; Mockingbird, 1; Loggerhead Shrike, 1; Spotted Towhee, 1; Jan. 2, Redhead, 3; Hooded Merganser, 1; Turkey Vulture, 1; Herring Gull, 1; Mourning Dove, 2; Red-shafted Flicker, 2; Western Meadowlark, 7; Purple Grackle, 1; Pine Siskin, 8.)—L. P. Dittemore, Paul Finninger, Elizabeth Fisher, Roberta Foote, Ruwal Freese, Grace Holcombe, Phil Menninger, T. W. Nelson, E. Maurice Nuss, David Pantle (Topeka Audubon Society).

327. Wichita, Kans. (Santa Fe and Crestview lakes, woods along Whitewater River and Whitewater Creek, Maple Grove Cemetery, Oak and Sims Park; lake 10%, deciduous woodlots 55%, slough and marshland 5%, brushland 15%, open fields 15%).—Dec. 26; dawn to dusk. Clear to partly cloudy; temp. 17° to 35° to 33°; wind S, 5-8 m.p.h.; river, creek, and lake partially frozen. Total hours, 11 (9 on foot, 2 by car); total miles, 76 (14 on foot, 62 by car). Canada Goose, 2; Snow Goose, 1; Mallard, 1500 (est.); Red-tailed Hawk, 1; Marsh Hawk, 11; Sparrow Hawk, 1; Mourning Dove, 2; Belted Kingfisher, 1; Yellow-shafted Flicker, 6; Red-bellied Woodpecker, 8; Downy Woodpecker, 17; Horned Lark, 18; Blue Jay, 7; Am. Crow, 122; Black-capped Chickadee, 53; Tufted Titmouse, 3; Red-breasted Nuthatch, 7; Brown Creeper, 3; Robin, 30; Golden-crowned Kinglet, 21; Loggerhead Shrike, 9; Starling, 145; English Sparrow, 154; Eastern and Western Meadowlarks, 118; Red-wing, 1; Brewer's Blackbird, 1; Cardinal, 23; Am. Goldfinch, 2; Spotted Towhee, 2; Slate-colored Junco, 79; Tree Sparrow, 151; Harris's Sparrow, 190; Song Sparrow, 2. **Total,** 34 species; about 2691 individuals.—Loren Keller, Harry L. Hobson.

328. Durant, Okla. (city park, Southeastern State College campus, adjacent residential areas, north from college to Chuckwa Creek then west to Washington St., Hickory Hollow Rod and Gun Club, State Fish Hatchery, roads to and from gun club and hatchery; roadsides of open farmland 5%, pastured woodland 50%, fish hatchery 35%, residential area including campus 10%).—Dec. 30; 7:15 a.m. to 5 p.m. Overcast except for ½ hour between 10:30 and 11 a.m.; temp. 43° to 66°; wind S to SE, 0-5 m.p.h. Five observers, 2 in 1 party for 4 hours, 4 in 1 party for 4¼ hours. Total hours, 8¼ (7½ on foot, ¾ by car); total miles, 30 (10 on foot, 20 by car). Pied-billed Grebe, 6; Mallard, 33; Gadwall, 2; Baldpate, 5; Pintail, 41; Blue-winged Teal, 2; Shoveller, 5; Redhead, 1; Ring-necked Duck, 17; Canvas-back, 3; Lesser Scaup Duck, 5; Buffle-head, 8; Ruddy Duck, 13; Sparrow Hawk, 1; Red-tailed Hawk, 1; Am. Coot, 1779 (1000 est., 779); Killdeer, 40; Belted Kingfisher, 1; Red-shafted Flicker, 1; Yellow-shafted Flicker, 9; Red-bellied Woodpecker, 2; Hairy Woodpecker, 1; Yellow-bellied Sapsucker, 1; Blue Jay, 16; Am. Crow, 18;

Carolina Chickadee, 6; Tufted Titmouse, 14; Carolina Wren, 5; Mockingbird, 3; Robin, 12; Eastern Bluebird, 8; Cedar Waxwing, 70 (est.); Loggerhead Shrike, 1; Eastern Towhee, 1; Myrtle Warbler, 8; English Sparrow, 300 (est.); Eastern Meadowlark, 8; Cardinal, 31; Am. Goldfinch, 4; Slate-colored Junco, 167; Field Sparrow, 15; Harris's Sparrow, 31; White-throated Sparrow, 5; Song Sparrow, 3. **Total,** 44 species; about 2703 individuals. (Seen in area Dec. 29, Ruby-crowned Kinglet, 1; Jan. 2, blackbird (sp.), 70 [est.]; Purple Grackle, 4). Cattails at fish hatchery were cut early in September in an effort to discourage blackbirds. That the effort was successful will be seen in the count report [3,000,000 blackbirds last year]. It was necessary to make a second trip to find any blackbirds at all. Reports are that the blackbirds are congregating several miles to northwest, outside count area. About half of city park torn up preparatory to erecting a high school building. Thus has been removed the only sure station for Red-headed Woodpeckers.)—Wayne H. Silver, Dorothy S. Silver, Sam Pool, Ethel Byrns, Bertha Byrns.

329. Norman, Okla. (area immediately surrounding town to 3 miles south in Oliver's Woods, thence alonge South Canadian River, and south to Indian Springs, 5 miles south; north of town to Crystal Lake, and east to Hospital Lake; elm-ash-cottonwood riverbottom 10%, open flood plain 10%, cultivated mixed grass prairie 20%, elm-hackberry woodland 40%, water 10%, town and suburb 10%).—Dec. 27; 8 a.m. to 4 p.m. Clear; temp. 28° to 60°; little wind; ground bare and moist; water open. Total hours, 8 (7 on foot, 1 in car); total miles, 24. Pied-billed Grebe, 1; duck (sp.), 15; Ring-necked Duck, 4; Am. Merganser, 3; Red-tailed Hawk, 1; Marsh Hawk, 2; Sparrow Hawk, 2; Killdeer, 2; Horned Owl, 1; Yellow-shafted Flicker, 19; Red-shafted Flicker, 6; Red-bellied Woodpecker, 7; Red-headed Woodpecker, 7; Yellow-bellied Sapsucker, 5; Hairy Woodpecker, 4; Downy Woodpecker, 8; Horned Lark, 65; Blue Jay, 14; Am. Crow, 523; Carolina Chickadee, 28; Tufted Titmouse, 35; Brown Creeper, 2; Carolina Wren, 6; Mockingbird, 2; Eastern Bluebird, 43; Robin, 44; Hermit Thrush, 1 (H.P.C., L.W.); Ruby-crowned Kinglet, 1; Am. Pipit, 1; Cedar Waxwing, 6; Loggerhead Shrike, 3; Starling, 385; Myrtle Warbler, 2; English Sparrow, 73; meadowlark (sp.), 90; Western Meadowlark, 8; Red-wing, 196; Brewer's Blackbird, 5; Rusty Blackbird, 7; Brown-headed Cowbird, 2; Cardinal, 33; Purple Finch, 35; Spotted Towhee, 16; Am. Goldfinch, 130; Vesper Sparrow, 2; Slate-colored Junco, 115; Tree Sparrow, 105; Field Sparrow, 2; Harris's Sparrow, 160; White-crowned Sparrow, 111; Fox Sparrow, 2; Lincoln's Sparrow, 2; Song Sparrow, 81. **Total,** 52 species; 2423 individuals. (Seen in Norman Dec. 28, 1 Mourning Dove.)—M. Dale Arvey, Howard P. Clemens, Harold A. Dundee, Glenn Jones, Mrs. Lovie Whitaker.

330. Salt Plains National Wildlife Refuge, Jet, Okla. (dam spillway and Salt Fork River, east side of lake north to fish hatchery, south side of lake west to White residence; lake 50%, adjacent agricultural land 10%, roadsides 10%, deciduous woodland 30%).—Dec. 31; 7 a.m. to 5:30 p.m. Partly cloudy; temp. 36° to 56°; wind SE. 0-5 m.p.h.; coves and north end of lake and all small ponds frozen. Nine observers in 2 parties. Total hours, 21 (3½ in car); total miles, 35 (5 on foot, 30 by car). Horned Grebe, 1; Great Blue Heron, 77; Canada Goose, 1770 (Common Canada, 405; Lesser, 1250 [est.]; Hutchins's, 115); Mallard, 2365 (est.); Black Duck, 2; Gadwall, 4; Pintail, 17; Green-winged Teal, 10; Blue-winged Teal, 3; Baldpate, 6; Redhead, 4; Lesser Scaup Duck, 2; Hooded Merganser, 3; Am. Merganser, 3050 (est.); Red-tailed Hawk, 3 (Eastern, 1; Krider's, 1; Western, 1); Red-shouldered Hawk, 1; Rough-legged Hawk, 6; Golden Eagle, 38; Bald Eagle, 38; Marsh Hawk, 16; Bob-white, 17; Ring-necked Pheasant, 3; Am. Coot, 1; Wilson's Snipe, 1; Herring Gull, 76; Ring-billed Gull, 100; Mourning Dove, 2; Barn Owl, 1; Horned Owl, 3; Belted Kingfisher, 5; Yellow-shafted Flicker, 14; Red-shafted Flicker, 15; Red-bellied Woodpecker, 5; Hairy Woodpecker, 3; Downy Woodpecker, 14; Blue Jay, 2; Am. Crow, 156; Black-capped Chickadee, 118; Tufted Titmouse, 29; Brown Creeper, 4; Bewick's Wren, 1; Carolina Wren, 6; Robin, 202; Eastern Bluebird, 6; Golden-crowned Kinglet, 4; Cedar Waxwing, 12; Starling, 358; English Sparrow, 25; Meadowlark (both Eastern and Western), 25; Red-wing, 19; Brewer's Blackbird, 75; Cardinal, 71; Am. Goldfinch, 8; Spotted Towhee, 25; Vesper Sparrow, 1; Slate-colored Junco, 58; Tree Sparrow, 255; Harris's Sparrow, 280; White-crowned Sparrow, 16; Song Sparrow, 6. **Total,** 61 species (4 additional subspecies); about 9441 individuals.—J. P. Barrett, J. Creager, Mrs. J. Creager, J. J. Devaney, Addie Fromholz, Florel Helema, C. F. Marshall, Paul Nighswonger, W. W. Tullis.

331. Stillwater, Okla. (Boomer Lake, Fair Park, Lake Carl Blackwell; lake shore 25%, timbered streams 25%, timbered ravine 25%, cultivated fields and pastures 25%).—Dec. 27; 6 a.m. to 5:30 p.m. Clear; temp. 32° to 50°; wind S. 1-7 m.p.h.; lakes, ponds, and streams below capacity. Five observers working singly or together. Total hours, 30 (22 on foot, 8 by car); total miles, 70 (50 by car, 20 on foot). Great Blue Heron, 2; Mallard, 67; Baldpate, 15; Pintail, 1; Am. Merganser, 270 (est.); unidentified ducks, 100; Cooper's Hawk, 1; Red-tailed Hawk, 4; Rough-legged Hawk, 2; Prairie Falcon, 1; Pigeon Hawk, 1 [no details—Ed.]; Sparrow Hawk, 1; Bob-white, 56; Ring-billed Gull, 3; unidentified gulls, 38; Mourning Dove, 3; Screech Owl, 1; Horned Owl, 2; Short-eared Owl, 3; Belted Kingfisher, 1; Yellow-shafted Flicker, 11; Red-shafted Flicker, 1, Red-bellied Woodpecker, 3; Red-headed Woodpecker, 5; Hairy Woodpecker, 4; Downy Woodpecker, 7; Horned Lark, 31; Blue Jay, 23; Am. Crow, 56; Carolina Chickadee, 21; Tufted Tit-

mouse, 9; White-breasted Nuthatch, 2; Winter Wren, 1; Bewick's Wren, 1; Mockingbird, 2; Robin, 145; Eastern Bluebird, 18; Loggerhead Shrike, 1; Starling, 210; English Sparrow, 100; Meadowlark (both Eastern and Western), 132; Red-wing, 53; Brewer's Blackbird, 100; Cardinal, 51; Purple Finch, 23; Am. Goldfinch, 80; Spotted Towhee, 14; Leconte's Sparrow, 1; Slate-colored Junco, 160; Tree Sparrow, 370; Field Sparrow, 12; White-throated Sparrow (1st winter record), 2; Fox Sparrow, 8; Song Sparrow, 28; Lapland Longspur, 4. **Total,** 55 species; about 2261 individuals.—A. M. Baumgartner, F. M. Baumgartner, Richard DeArment, Mrs. Max Plice, W. P. Taylor (Oklahoma A. and M. College).

332. Tulsa, Okla. (Mohawk Park—same area as covered in 1948 count; city reservoirs, recreation lake, and lagoon 25%, hackberry, elm, oak, floodplains 40%, areas devoted to park use 20%, cultivated fields and hay meadows 15%).—Dec. 26; 8 a.m. to 5 p.m. Clear to overcast; temp. 26° to 34° to 32°; wind N until 10 a.m., then S, 8-10 m.p.h.; thin ice on shallow water. Sixteen observers in 8 parties. Total hours, 35 (31 on foot, 4 in car); total miles, 45 (33 on foot, 12 by car). Pied-billed Grebe, 7; Great Blue Heron, 23; Mallard, 3437 (3000 est., 437); Black Duck, 3; Gadwall, 2; Pintail, 1; Baldpate, 1; Shoveller, 2; Redhead, 15; Lesser Scaup Duck, 25; Am. Golden-eye, 17; Buffle-head, 10; Hooded Merganser, 5; Am. Merganser, 2012 (2000 est., 12); Red-tailed Hawk, 9; Red-shouldered Hawk, 12; Marsh Hawk, 3; Sparrow Hawk, 1; Bob-white, 41; Virginia Rail, 1; Sora, 1; Am. Coot, 4; Killdeer, 21; Wilson's Snipe, 3; Ring-billed Gull, 24; Barred Owl, 3; Belted Kingfisher, 1; Yellow-shafted Flicker, 29; Pileated Woodpecker, 5; Red-bellied Woodpecker, 27; Red-headed Woodpecker, 119; Yellow-bellied Sapsucker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 36; Blue Jay, 186; Am. Crow, 144; Chickadee [sp.], 148; Tufted Titmouse, 109; White-breasted Nuthatch, 31; Brown Creeper, 20; Winter Wren, 1; Carolina Wren, 25; Mockingbird, 4; Robin, 207; Eastern Bluebird, 24; Golden-crowned Kinglet, 11; Ruby-crowned Kinglet, 3; Cedar Waxwing, 30; Loggerhead Shrike, 3; Starling, 595; Myrtle Warbler, 5; English Sparrow, 48; Eastern Meadowlark, 22; Red-wing, 60 (50 est., 10); Rusty Blackbird, 1225 (1000 est., 225); Brewer's Blackbird, 400 (est.); Purple Grackle, 1264 (500 est., 764); Cardinal, 52; Purple Finch, 9; Am. Goldfinch, 55; Eastern Towhee, 6; Spotted Towhee, 2; Savannah Sparrow, 3; Slate-colored Junco, 171; Tree Sparrow, 71; Field Sparrow, 4; Harris's Sparrow, 175; White-throated Sparrow, 34; Fox Sparrow, 46; Lincoln's Sparrow, 3; Song Sparrow, 45. **Total,** 71 species; about 11,146 individuals. (Seen on Jan. 1, Vermilion Flycatcher, 1 ♂ which had been observed almost daily from Sept. 20 to Nov. 12, and also on Dec. 1, 6, and 20—Dr. and Mrs. A. M. Mery, Bruce Reynolds, Mame Ginter; believed to be 1st record for Oklahoma.)—Mrs. Donald Acord, H. D. Chase, Hugh Davis, Mr. and Mrs. Ernest Esst, Orrin W. Letson, Ethel S. Letson, Mr. and Mrs. E. D. Markwell, Thero North, Mrs. Bruce Reynolds, Boyd Robinson, Minta Robinson, Bess Smith, G. E. Tenney, S. H. Watkins (Tulsa Audubon Society).

333. Wichita Mountains Wildlife Refuge, Cache (Comanche Co.), Okla. (French Lake shore, refuge headquarters, upper West Cache Creek, southwestern slope Elk Mt., Caddo, Comanche, Grama lakes and Buffalo Springs vicinity, Burford and Quanah Parker lakes, and roadsides between above points; lake shores 10%, creek bottoms 40%, blackjack oak and rocky hillside locations 15%, open prairie 35%).—Dec. 26; 8 a.m. to 5:50 p.m. Clear; temp. 25° to 45°; wind S, 3-5 m.p.h. Total hours afield, 8; total miles, 26 (21 by car, 5 on foot). Pied-billed Grebe, 8; Mallard, 41; Green-winged Teal, 12; Am. Golden-eye, 2; Bufflehead, 8; Hooded Merganser, 9; Am. Merganser, 34; Red-tailed Hawk, 2; Golden Eagle, 1; Bald Eagle, 3; Turkey, 33; Mourning Dove, 4; Horned Owl, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 3; Red-shafted Flicker, 12; Red-bellied Woodpecker, 2; Downy Woodpecker, 3; Am. Crow, 33; chickadee [sp.], 62; Tufted Titmouse, 38; White-breasted Nuthatch, 2; Bewick's Wren, 1; Robin, 178 (150 est., 28); Eastern Bluebird, 7; Cedar Waxwing, 10; Loggerhead Shrike, 1; meadowlark [sp.], 49; Red-wing, 217 (100 est., 17); Rusty Blackbird, 325 (300 est., 25); Brewer's Blackbird, 319 (300 est., 19); Cardinal, 14; Am. Goldfinch, 1; Savannah Sparrow, 7; junco [sp.], 580 (500 est., 80); Tree Sparrow, 31; Chipping Sparrow, 3; Field Sparrow, 76; Harris's Sparrow, 21; Song Sparrow, 4; Longspur [sp.]; 18. **Total,** 41 species; about 2176 individuals.—Ernest J. Greenwalt, Refuge Manager.

334. Aransas National Wildlife Refuge, Austwell (Aransas and Refugio Cos.), Tex. (refuge headquarters south on east shore road to Jones Lake, turning on trail along Intra-coastal Waterway to Redfish Slough, across flat to Flowing Well, following old trail to shell road, south on road to new turn off, west on road to St. Charles Bay, north along bay shore to Burgentine Lake, returning on shell road, via north boundary route; oak mottes 10%, brushy prairie 30%, salt marsh and bay shore 50%, salt flats 10%).—Dec. 31; 7 a.m. to 6 p.m. Foggy at start, clearing by 9 a.m., cloudy until noon, clear until 3 p.m., partly cloudy until dark; no rain or wind; bays glassy; temp. 63° to 77°. Two observers together. Total hours, 11; total miles, 39 (38 by jeep, 1 on foot). Pied-billed Grebe, 6; White Pelican, 75; Brown Pelican, 9; Mexican Cormorant, 50; Water-turkey, 1; Great Blue Heron, 15; Am. Egret, 25; Snowy Egret, 15; Reddish Egret, 6; Louisiana Heron, 3; Little Blue Heron, 1; Black-crowned Night Heron, 10; White Ibis, 30; Canada Goose (including Lesser), 1000 (est.); White-fronted Goose, 50; Snow Goose, 1425 (est.); Blue Goose, 75 (est.); Mallard, 25; Mottled Duck, 12; Gadwall, 1000 (est.); Baldpate, 1000 (est.); Pintail, 3000 (est.); Green-winged Teal, 4; Blue-winged Teal, 2; Shoveller, 6; Redhead, 25; Ring-necked

Duck, 6; Canvas-back, 150; Lesser Scaup Duck, 30; Buffle-head, 12; Ruddy Duck, 3; Red-breasted Merganser, 1; Turkey Vulture, 25; Black Vulture, 34; Red-tailed Hawk, 5 (1 light-colored bird possibly Krider's Hawk); Red-shouldered Hawk, 1; Sennett's White-tailed Hawk, 2; Bald Eagle, 1; Marsh Hawk, 4; Audubon's Caracara, 8; Sparrow Hawk, 6; Whooping Crane, 20 (all birds were not on territory and complete check was not possible; however, 32 birds including 4 young were counted on Refuge, Dec. 24); Sandhill Crane, 75; Florida Gallinule, 1; Am. Coot, 1000 (est.); Killdeer, 15; Black-bellied Plover, 5; Ruddy Turnstone, 20; Long-billed Curlew, 6; Willet, 6; Greater Yellow-legs, 4; Lesser Yellow-legs, 12; Least Sandpiper, 25; Red-backed Sandpiper, 75; Dowitcher, 200; Semipalmated Sandpiper, 5; Western Sandpiper, 2; Sanderling, 2; Herring Gull, 2; Ring-billed gull, 100 (est.); Laughing Gull, 2; Forster's Tern, 25; Caspian Tern, 12; Mourning Dove, 70; Horned Owl, 2; Belted Kingfisher, 5; Yellow-shafted Flicker, 2; Red-bellied Woodpecker, 1; Yellow-bellied Sapsucker, 2; Eastern Phoebe, 11; Vermilion Flycatcher, 1; Horned Lark, 1; House Wren, 3; Long-billed Marsh Wren, 1; Mockingbird, 7; Brown Thrasher, 5; Robin, 200 (est.); Ruby-crowned Kinglet, 3; Am. Pipit, 25; Sprague's Pipit, 1; Loggerhead Shrike, 3; Starling, 5; White-eyed Vireo, 1; Myrtle Warbler, 25; Yellow-throat, 1; Eastern Meadowlark, 40; Western Meadowlark, 15; Red-wing, 100 (est); Brewer's Blackbird, 30; Eastern Cowbird, 3; Cardinal, 40; Am. Goldfinch, 3; Savannah Sparrow, 15; Vesper Sparrow, 50; White-throated Sparrow, 1; Lincoln's Sparrow, 1. **Total,** 96 species; about 10,444 individuals.—Leslie E. Beaty, Russel W. Clapper.

335. Big Spring, Tex. (same area as last year; parks southwest of town to Moss Creek Lake 10 miles east; city and state parks, ranchland south and southeast of town, road to Moss Creek Lake, lake and canyon area above dam; elevation, 2300 ft. on lower creeks to 2800 ft. on Edwards Plateau; open park 15%, cultivated fields 20%, artificial lake 5%, mesquite thickets and long grass in stream valleys 15%, mesquite-juniper hillsides and table land 45%).—Jan. 1; 8 a.m. to 5 p.m. Fog and misty rain until noon (maximum visibility ¼ mile), overcast in p.m.; temp. 42° to 62° to 58°; wind SE, about 1 m.p.h. until noon, then SW, 5-12 m.p.h.; ground muddy; water open. Four observers in car, 3 observers in 2 parties on foot. Total hours, 9 (6 on foot, 3 in car); total miles, 55 (4 on foot, 51 in car). Pied-billed Grebe, 4; Great Blue Heron, 1; Pintail, 23; Redhead, 6; Buffle-head, 13; Red-tailed Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 1; Mourning Dove, 19; Horned Owl, 1; Belted Kingfisher, 1; Red-shafted Flicker, 5; Ladder-backed Woodpecker, 6; Horned Lark, 10; White-necked Raven, 15; Black-crested Titmouse, 1; Bewick's Wren, 4; Cañon Wren, 1; Mockingbird, 169; Thrasher (Brown or Sennett's), 1 (M.K.G.); Sage Thrasher, 16; Robin, 147; Eastern Bluebird, 16 (M.K.G.); Mountain Bluebird, 34; Ruby-crowned Kinglet, 3; Cedar Waxwing, 122 (some in mixed flocks with Bluebirds, others with Robins); Loggerhead Shrike, 7; Starling, 7; Myrtle Warbler, 3; English Sparrow, 199; Western Meadowlark, 10; Cardinal, 30; House Finch, 167; Am. Goldfinch, 142; Arkansas Goldfinch, 5; Green-tailed Towhee, 5; Spotted Towhee, 11; Brown Towhee (Cañon), 18; Lark Bunting, 227; Lark Sparrow, 18; Rufous-crowned Sparrow, 5; Oregon Junco, 32; Field Sparrow, 12 (identified by small size, pink bill, eye-ring, pale rufous crown divided by broad median gray stripe—M.K.G., J.E.G.); White-crowned Sparrow, 144; Song Sparrow, 20. **Total,** 45 species; 1684 individuals.—John E. and Margret K. Galley, David O. and Edith Force Kassing.

336. Brownsville, Tex. (circle with 7½-mile radius with center near intersection of 14th St. and new Port Isabel highway, and including parts of Brownsville and Olmito; prairie 50%, woodland [mainly brush] 15%, resacas, lakes, and river levee 35%.)—Jan. 1; 8 a.m. to 6 p.m. Overcast, with early fog, mist, occasional showers, some sunshine; visibility 1/16 mile to 8 miles (10 a.m.) to 3 miles; temp. 64° to 78°; wind NNW to ESE, calm to 3-14 m.p.h.; precipitation .12 inch. Seven observers in 3 parties. Total hours, 16; total miles, 99 (90 by car, 9 on foot). Mexican Grebe, 6; Pied-billed Grebe, 5; White Pelican, 150; Mexican Cormorant, 13; Water-turkey, 18; Great Blue Heron, 10; Am. Egret, 12; Snowy Egret, 31; Reddish Egret, 5; Louisiana Heron, 4; Little Blue Heron, 2; Green Heron, 1; Black-crowned Night Heron, 30; Yellow-crowned Night Heron, 2; White-faced Ibis, 125; Canada Goose, 12; Gadwall, 93; Baldpate, 26; Pintail, 99; Green-winged Teal, 293; Blue-winged Teal, 30; Cinnamon Teal, 4; Shoveller, 1; Ring-necked Duck, 4; Canvas-back, 30; Lesser Scaup Duck, 63; Buffle-head, 15; Ruddy Duck, 63; Turkey Vulture, 3; Black Vulture, 20; Cooper's Hawk, 1; Red-tailed Hawk, 4; Red-shouldered Hawk, 1; Sennett's White-tailed Hawk, 1; Harris's Hawk, 2; Marsh Hawk, 16; Audubon's Caracara, 4; Pigeon Hawk, 1; Sparrow Hawk, 25; Sora, 2; Florida Gallinule, 10; Am. Coot, 550; Piping Plover, 2; Killdeer, 26; Black-bellied Plover, 7; Long-billed Curlew, 110; Willet, 4; Greater Yellow-legs, 3; Lesser Yellow-legs, 21; Red-backed Sandpiper, 20; Dowitcher, 41; Semipalmated Sandpiper, 250; Black-necked Stilt, 6; Herring Gull, 1; Ring-billed Gull, 5; Laughing Gull, 3; Gull-billed Tern, 3; Forster's Tern, 3; Least Tern, 5; Mourning Dove, 34; Ground Dove, 9; Inca Dove, 3; White-fronted Dove, 2; Road-runner, 1; Merrill's Pauraque, 1; Belted Kingfisher, 6; Texas Kingfisher, 4; Golden-fronted Woodpecker, 17; Yellow-bellied Sapsucker, 1; Ladder-backed Woodpecker, 11; Couch's Kingbird, 3; Derby Flycatcher, 18; Eastern Phoebe, 11; Vermilion Flycatcher, 10; Horned Lark, 7; Green Jay, 16; White-necked Raven, 123; Black-crested Titmouse, 16; House Wren, 10; Bewick's Wren, 1; Carolina Wren, 3; Mockingbird, 57; Sennett's Thrasher, 4; Curve-billed Thrasher, 10; Robin, 1; Eastern Bluebird, 2; Blue-gray Gnatcatcher, 11;

Ruby-crowned Kinglet, 13; Am. Pipit, 11; Sprague's Pipit, 2; Loggerhead Shrike, 8; White-eyed Vireo, 3; Solitary Vireo, 3; Black and White Warbler, 6; Orange-crowned Warbler, 18; Nashville Warbler, 1; Myrtle Warbler, 65; Black-throated Green Warbler, 1; Yellow-throated Warbler (Sycamore), 1; Kentucky Warbler, 1 (reported by M. S.); Yellow-throat, 23; English Sparrow, 22; Eastern Meadowlark, 36; Red-wing, 1060; Audubon's Oriole, 6; Boat-tailed Grackle, 32; Brown-headed Cowbird, 100; Cardinal, 18; Sharpe's Seedeater, 15; Am. Goldfinch, 1; Texas Sparrow, 6; Savannah Sparrow, 13; Lark Sparrow, 12; Black-throated Sparrow, 2; White-crowned Sparrow, 2; Lincoln's Sparrow, 2. **Total,** 116 species; 4202 individuals.—Mr. and Mrs. I. Davis, Margaret and Fred Stearns, Mr. and Mrs. Carl Ellington, Charlotte A. DuBois.

337. Commerce, Tex. (part of same area covered last year; but area limited because of several days of rain; east then south through narrow deciduous woodland along stream, return across pastures and fields and by artificial ponds; deciduous bottom woodland 70%, open pastureland 25%, ponds 5%). —Jan. 1; 9 a.m. to 5 p.m. Heavy overcast; temp. 59° to 73°; wind SE, 1-3 m.p.h. Two observers together. Total hours, 8; total miles, 13 (12 on foot, 1 by car). Pied-billed Grebe, 4; Turkey Vulture, 20; Black Vulture, 6; Red-tailed Hawk, 1; Harlan's Hawk, 1; Red-shouldered Hawk, 2; Sparrow Hawk, 1; Killdeer, 2; Wilson's Snipe, 2; Mourning Dove, 14; Barred Owl, 2; Yellow-shafted Flicker, 19; Red-bellied Woodpecker, 30; Red-headed Woodpecker, 1; Yellow-bellied Sapsucker, 11; Hairy Woodpecker, 2; Downy Woodpecker, 11; Horned Lark, 9; Blue Jay, 54; Am. Crow, 55; Carolina Chickadee (Plumbeous), 66; Tufted Titmouse, 21; Brown Creeper, 7; Bewick's Wren, 7; Carolina Wren, 22; Mockingbird, 26; Brown Thrasher, 43; Robin, 44; Hermit Thrush, 7; Eastern Bluebird, 31; Golden-crowned Kinglet, 1; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 7; Starling, 12; Myrtle Warbler, 1; Eastern Meadowlark, 110; Red-wing, 140; Rusty Blackbird, 70; Boat-tailed Grackle, 4; Purple Grackle (Bronzed), 65; Brown-headed Cowbird, 65; Cardinal, 116; Purple Finch, 35; Am. Goldfinch, 34; Eastern Towhee, 7; Savannah Sparrow, 14; Baird's Sparrow, 1; Leconte's Sparrow, 1; Henslow's Sparrow, 2; Vesper Sparrow, 2; Slate-colored Junco, 95; Clay-colored Sparrow, 1; Field Sparrow, 86; Harris's Sparrow, 86 (50 est., 36); White-crowned Sparrow, 20; White-throated Sparrow, 67; Fox Sparrow, 12; Lincoln's Sparrow, 1; Song Sparrow, 7. **Total,** 59 species; 1549 individuals.—Lea Davis, Norah Selby O'Neil.

338. Concan, Tex. (banks of Frio River near Concan and in Garner State Park 10%, valley meadows and farms 10%, thickets, open fields, and oak-juniper hillsides along highway between Concan and Leakey 80%).—Dec. 31; 8:30 a.m. to 5:30 p.m. Cloudy, with intermittent fog and rain; temp. 65° to 75°; calm. Three observers together. Total hours, 9 (2 on foot, 7 in car); total miles, 64 (4 on foot, 60 in car). Pied-billed Grebe, 1; Great Blue Heron, 1; Black Vulture, 7; Sharp-shinned Hawk, 1; Sparrow Hawk, 2; Turkey, 1; Killdeer, 2; Mourning Dove, 20; Inca Dove, 15; Screech Owl, 1; Belted Kingfisher, 3; Yellow-shafted Flicker, 5; Red-bellied Woodpecker, 1; Golden-fronted Woodpecker, 10; Ladder-backed Woodpecker, 9; Eastern Phoebe, 9; Black Phoebe, 1; Am. Crow, 5; Carolina Chickadee, 12; Black-crested Titmouse, 42; Bewick's Wren, 36; Carolina Wren, 30; Cañon Wren, 2; Mockingbird, 15; Robin, 1000 (est.); Eastern Bluebird, 150 (est.); Golden-crowned Kinglet, 1; Ruby-crowned Kinglet, 8; Cedar Waxwing, 80; Loggerhead Shrike, 4; Myrtle Warbler, 55; English Sparrow, 12; Western Meadowlark, 120; Brewer's Blackbird, 40; Brown-headed Cowbird, 17; Cardinal, 62; Pyrrhuloxia, 2; House Finch, 3; Am. Goldfinch, 48; Spotted Towhee, 2; Savannah Sparrow, 10; Black-throated Sparrow, 8; Vesper Sparrow, 40; Lark Sparrow, 38; Slate-colored Junco, 6; Chipping Sparrow, 51; Field Sparrow, 9; Harris's Sparrow, 2; White-crowned Sparrow, 5; White-throated Sparrow, 40; Lincoln's Sparrow, 36; Song Sparrow, 8. **Total,** 52 species; about 2088 individuals.—Ella Wolfer, Edna W. Miner, Joe M. Heiser, Jr. (Outdoor Nature Club of Houston, Tex.).

339. Del Rio, Tex. (same area and habitat percentages as last year).—Dec. 25; 7:30 a.m. to 6:15 p.m. Overcast, light mist in a.m.; temp. 46° to 54° to 50°; wind SE, 1-5 m.p.h.; ground slightly muddy; water clear and open. Four observers together. Total hours, 10 (6 on foot, 4 in car); total miles, 68½ (4½ on foot, 64 in car). Great Blue Heron, 4; Am. Egret, 2 (seen at 100 ft. by all 4 observers); Green Heron, 1 (seen at 30 ft.—M.K.G., E.F.K.); Buffle-head, 28; Turkey Vulture, 1; Black Vulture, 6; Cooper's Hawk, 1; Red-tailed Hawk, 2; Marsh Hawk, 4; Sparrow Hawk, 6; Am. Coot, 56; Killdeer, 45; Wilson's Snipe, 1; Spotted Sandpiper, 1; Mourning Dove, 36; Horned Owl, 1; Belted Kingfisher, 1; Green Kingfisher, 1; Yellow-shafted Flicker, 1 (J.E.G.); Red-shafted Flicker, 2; Golden-fronted Woodpecker, 14; Yellow-bellied Sapsucker, 1; Ladder-backed Woodpecker, 15; Eastern Phoebe, 4; Black Phoebe, 1; Say's Phoebe, 2; Vermilion Flycatcher, 6; Horned Lark, 1 (M.K.G.); White-necked Raven, 1; Black-crested Titmouse, 14; Verdin, 4; White-breasted Nuthatch, 2 (E.F.K., D.O.K.); Winter Wren, 1 (E.F.K.); Bewick's Wren, 10; Carolina Wren, 2 (1 observed at 20 ft. and song of other heard at close range, by all 4 observers); Cactus Wren, 1; Long-billed Marsh Wren, 3; Cañon Wren, 1; Mockingbird, 25; Eastern Bluebird, 1; Ruby-crowned Kinglet, 11; Cedar Waxwing, 18; Loggerhead Shrike, 8; Starling, 15; Orange-crowned Warbler, 11; Myrtle Warbler, 12; Yellow-throat, 2; English Sparrow, 33; meadowlark [sp.], 54; Red-wing, 31; Brewer's Blackbird, 175; Boat-tailed Grackle, 82; Purple Grackle, 36 (in flocks with Boat-tailed Grackles, conspicuous size distinctions); Brown-headed Cowbird, 10; Cardinal, 54; Pyrrhuloxia, 25; House Finch, 2; Am.

Goldfinch, 40; Arkansas Goldfinch, 10; Texas Sparrow, 2 (J.E.G., E.F.K.); Green-tailed Towhee, 1; Brown Towhee (Cañon), 1; Lark Bunting, 62; Vesper Sparrow, 13; Lark Sparrow, 3; Cassin's Sparrow, 8; Slate-colored Junco, 2 (E.F.K., D.O.K.); Brewer's Sparrow, 1 (J.E.G.); White-crowned Sparrow, 31; Lincoln's Sparrow, 22; Song Sparrow, 9. **Total,** 71 species; 1093 individuals. (Seen in area Dec. 24, Eared Grebe, 2; on Dec. 26, Prairie Falcon, 1; Woodcock, 1 seen at 10 ft.—J.E.G.; Brown Creeper, 1; Rock Wren, 3; Robin, 2; Hermit Thrush, 2; Blue-gray Gnatcatcher, 4, seen and heard at close range by all observers; Black-throated Sparrow, 6; Black-chinned Sparrow, 1—M.K.G., E.F.K.) —John E. and Margret K. Galley, David O. and Edith Force Kassing.

340. El Paso, Tex. (center of area at point on Mount Franklin; Boy Scout Camp, Randel's Pool, Rio Grande levee and valley, sandhills east of town, Ascarate Lake, McKelligon's and Indian Springs canyons; river bosque 20%, river levees and irrigated farms 20%, dairy pens 5%, artificial lake, 10%, semi-arid canyon 30%, desert sandhills 15%). —Dec. 26; 7:30 a.m. to 3:30 p.m. Clear; Temp. 53° to 22°; wind N, 16 m.p.h. to calm; ground dry, water open. Ten observers in 4 parties. Total hours, 18½ (5½ by car, 13 on foot). [Total miles not stated—Ed.] Pied-billed Grebe, 2; Great Blue Heron, 12; Mallard, 65; Gadwall, 170; Baldpate, 70; Pintail, 55; Green-winged Teal, 195; Shoveller, 20; Canvas-back, 2; Lesser Scaup Duck, 5; Am. Merganser, 40; Sharp-shinned Hawk, 1; Red-tailed Hawk (Western), 5; Swainson's Hawk, 2; Marsh Hawk, 2; Sparrow Hawk (Desert), 10; Gambel's Quail, 241; Am. Coot, 25; Killdeer, 9; Western Sandpiper, 14; Ring-billed Gull, 3; Mourning Dove, 142; Road-runner, 3; Horned Owl, 1; Belted Kingfisher, 2; Red-shafted Flicker, 31; Texas Woodpecker, 2; Black Phoebe, 2; Say's Phoebe, 2; White-necked Raven, 104; Verdin, 3; Red-breasted Nut hatch, 5; Pygmy Nuthatch (Black-eared), 2 (two preceding species rarely seen here); Cactus Wren, 1; Long-billed Marsh Wren, 1; Rock Wren, 14; Mockingbird, 1; Crissal Thrasher, 4; Robin (Western), 37; Western Bluebird, 13; Ruby-crowned Kinglet, 13; Am. Pipit, 2; Loggerhead Shrike (White-rumped), 13; Starling, 349; Audubon's Warbler, 16; English Sparrow, 600 (est.); Red-wing, 85; Brewer's Blackbird, 760 (est.); House Finch, 210; Arkansas Goldfinch, 1; towhee (sp.), 1; Spotted Towhee (Spurred), 3; Savannah Sparrow, 2; Baird's Sparrow, 6; Lark Sparrow, 20; Black-throated Sparrow (Desert), 28; Oregon Junco, 20 (Shufeldt's, 16; Montana, 15; Pink-sided, 19); Arizona Junco, 4; Chipping Sparrow, 3; Clay-colored Sparrow, 10; Brewer's Sparrow, 121; White-crowned Sparrow (Gambel's), 220; Song Sparrow, 5. **Total,** 64 species (2 additional subspecies); about 3840 individuals.—Mrs. Harry Conway, Mrs. Lena McBee, Jennie Camp, Frances Camp, Mary Belle Keefer, Gail Grose, Tommy Conway, Maj. Gen. G. Ralph Meyer, Mr. and Mrs. George Burrows (El Paso Bird Study Club).

341. Fort Worth, Tex. (city parks, fish hatcheries near Lake Worth and Eagle Mountain Lake; Lake Como; Live Oak Creek and Silver Creek near Lake Worth; roadsides and pastures adjacent to White Settlement Road and to Clear Fork of Trinity River east of T&P railroad; Trinity River near River Crest Country Club; deciduous bottom woodland 60%, open pastureland 20%, ponds and lakes 20%).—Dec. 27; dawn to dusk. Cloudy early, clearing around 10 a.m.; temp. 40° to 52°; wind NE, 1-8 m.p.h. Seventeen observers in 4 parties. Total party-hours, 54 (40 on foot, 14 in car); total party-miles, 321 (67 on foot, 254 by car). Pied-billed Grebe, 5; Great Blue Heron (Ward's), 3; Mallard, 4; Baldpate, 52; Green-winged Teal, 2; Shoveller, 7; Redhead, 7; Ring-necked Duck, 7; Canvas-back, 8; Lesser Scaup Duck, 27; Greater Scaup Duck, 16; Turkey Vulture, 20; Black Vulture, 4; Sharp-shinned Hawk, 1; Red-tailed Hawk, 4; Rough-legged Hawk, 3; Marsh Hawk, 7; Pigeon Hawk, 1; Sparrow Hawk, 14; Bob-white, 1; Am. Coot, 31; Killdeer, 46; Wilson's Snipe, 24; Herring Gull, 5; Franklin's Gull, 5; Screech Owl, 1; Horned Owl, 4; Belted Kingfisher, 5; Yellow-shafted Flicker, 43; Red-shafted Flicker, 11; Red-bellied Woodpecker, 32; Red-headed Woodpecker, 19; Yellow-bellied Sapsucker, 22; Hairy Woodpecker, 8; Downy Woodpecker, 11; Ladder-backed Woodpecker, 1; Horned Lark, 155; Blue Jay, 66; Am. Crow, 65; Carolina Chickadee (Plumbeous), 74; Tufted Titmouse, 66; White-breasted Nuthatch, 1; Red-breasted Nuthatch, 6; Brown Creeper, 13; Bewick's Wren, 4; Carolina Wren, 13; Mockingbird, 42; Brown Thrasher, 13; Robin, 134; Eastern Bluebird, 44; Golden-crowned Kinglet, 4; Ruby-crowned Kinglet, 23; Am. Pipit, 50; Cedar Waxwing, 25; Loggerhead Shrike, 42; Starling, 38,000 (30,000 est., 8000); Black and White Warbler, 1; Myrtle Warbler, 28; English Sparrow, 140; meadowlark [sp.], 291; Red-wing, 72,000 (70,000 est., 2000); Brewer's Blackbird, 1; Brown-headed Cowbird, 11,500 (10,000 est., 1500); Cardinal, 81; Purple Finch, 5; Am. Goldfinch, 63; Spotted Towhee, 14; Eastern Towhee, 2; Savannah Sparrow, 12; Grasshopper, Sparrow, 2; Vesper Sparrow, 5; Slate-colored Junco, 84; Tree Sparrow, 2; Field Sparrow, 32; Harris's Sparrow, 58; White-crowned Sparrow, 11; White-throated Sparrow, 20; Fox Sparrow, 2; Lincoln's Sparrow, 23. **Total,** 79 species; 123,678 individuals. (Albino Harris's Sparrow included in count. Eastern Phoebe and Mourning Dove seen in area Dec. 31.)—Mrs. George S. Adams, Sister St. Andrew, Sister Martin Joseph, Elizabeth Stagg, Learline Logan, Mrs. J. E. Casstevens, Mrs. Robert H. Bowman, Ruth Harrison, Ann Bernhardt, Charles S. Lawson, Mr. and Mrs. Harry Wallenberg, Gertrude Morris, Mr. and Mrs. Wade Smith, John Ripley Forbes, David Bigelow (Fort Worth Audubon Club).

342. Galveston, Tex. (See page 187).

343. Harlingen, Tex. (7½-mile radius, with center about 1½ miles west of Rangerville; hackberry woodland 5%, brush 10%, canal banks, levees, and lakes 35%, open farmland 48%, town

sites 2%).—Dec. 26; dawn to dusk. Heavy overcast with light drizzle most of day and occasional heavy showers, clearing about 5 p.m.; temp. 51° to 74°; mostly calm. Twenty-five observers in 11 parties. Total party-hours, 110; total party-miles, 210 (60 afoot, 150 by car). Eared Grebe, 37; Least Grebe, 22; Pied-billed Grebe, 17; White Pelican, 2; Double-crested Cormorant, 1; Mexican Cormorant, 175; Water-turkey, 52; Great Blue Heron, 43; Am. Egret, 66; Snowy Egret, 46; Louisiana Heron, 20; Little Blue Heron, 21; Green Heron, 3; Black-crowned Night Heron, 76; Am. Bittern, 1; Least Bittern, 1; Wood Ibis, 1; White-faced Ibis, 21; White Ibis, 3; Canada Goose, 61; White-fronted goose, 35; Black-bellied Tree-duck, 25; Mottled Duck, 15; Gadwall, 527; Baldpate, 74; Pintail, 58; Green-winged Teal, 32; Blue-winged Teal, 51; Shoveller, 54; Redhead, 1; Ring-necked Duck, 8; Canvas-back, 47; Lesser Scaup Duck, 206; Ruddy Duck, 37; Turkey Vulture, 15; Black Vulture, 56; Sharp-shinned Hawk, 3; Cooper's Hawk, 11; Red-tailed Hawk, 8 (Red-tailed, 7; Krider's 1, pure white below with lightly banded tail—L.G.); Harlan's Hawk, 1 (black with mottled tail—A.M.D.); Red-shouldered Hawk, 10; Harris's Hawk, 12; Marsh Hawk, 41; Audubon's Caracara, 9; Peregrine Falcon, 3; Pigeon Hawk, 1; Sparrow Hawk, 177; Chachalaca, 10; Bob-white, 2; Sora, 2; Florida Gallinule, 28; Am. Coot, 1137; Killdeer, 172; Wilson's Snipe, 86; Long-billed Curlew, 3; Spotted Sandpiper, 5; Solitary Sandpiper, 1; Greater Yellow-legs, 46; Lesser Yellow-legs, 14; Least Sandpiper, 140; Long-billed Dowitcher, 3; Semipalmated sandpiper, 40; Western Sandpiper, 5; Black-necked Stilt, 1; Herring Gull, 6; Ring-billed Gull, 1; Forster's Tern, 6; Common Tern, 4; Caspian Tern, 2; Mourning Dove, 342; Ground Dove, 72; Inca Dove, 102; White-fronted Dove, 9; Groove-billed Ani, 2; Screech Owl, 4; Burrowing Owl, 3; Short-eared Owl, 2; Merrill's Pauraque, 6; Belted Kingfisher, 32; Green Kingfisher, 14; Golden-fronted Woodpecker, 42; Ladder-backed Woodpecker, 25; Couch's Kingbird, 18; Derby Flycatcher, 39; Eastern Phoebe, 87; Say's Phoebe, 3; Vermilion Flycatcher, 33; Beardless Flycatcher, 1; Tree Swallow, 1; Green Jay, 56; White-necked Raven, 2; Black-crested Titmouse, 33; Verdin, 6; House Wren, 36; Bewick's Wren, 17; Carolina Wren, 18; Cactus Wren, 9; Long-billed Marsh Wren, 6; Mockingbird, 264; Sennett's Thrasher, 24; Curve-billed Thrasher, 32; Sage Thrasher, 1; Am. Robin, 6; Hermit Thrush, 1; Eastern Bluebird, 47; Blue-gray Gnatcatcher, 30; Ruby-crowned Kinglet, 28; Am. Pipit, 133; Cedar Waxwing, 20; Loggerhead Shrike, 111; Starling, 1; White-eyed Vireo, 25; Solitary Vireo, 5; Black and White Warbler, 11; Orange-crowned Warbler, 23; Nashville Warbler, 5; Parula Warbler, 1; Sennett's Warbler, 1; Yellow Warbler, 1; Myrtle Warbler, 106; Audubon's Warbler, 1; Black-throated Gray Warbler, 1; Black-throated Green Warbler, 6; Yellow-throated Warbler, 4; Yellow-throat, 102; English Sparrow, 198; Eastern Meadowlark, 128; Red-wing, 10,000 (est.); Black-headed Oriole, 2; Hooded Oriole, 2; Brewer's Blackbird, 57; Boat-tailed Grackle, 650; Brown-headed Cowbird, 107; Red-eyed Cowbird, 19; Summer Tanager, 2; Cardinal, 138; Pyrrhuloxia, 10; Sharpe's Seedeater, 92; Am. Goldfinch, 98; Texas Sparrow, 51; Savannah Sparrow, 318; Vesper Sparrow, 3; Lark Sparrow, 200; Black-throated Sparrow, 37; Clay-colored Sparrow, 11; Field Sparrow, 1; White-crowned Sparrow, 7; White-throated Sparrow, 3; Lincoln's Sparrow, 76; Swamp Sparrow, 17; Song Sparrow, 56. **Total,** 151 species (1 additional subspecies); about 18,190 individuals.)—Neil Murphy, Dial Duncan, Maurine Gill, Terry Gill, Marshall Johnston, W. S. Jennings, Ned Hudson, Luther Goldman, Sharlene Gerrick, A. C. Becker, Marshal Wortham, Robert Drawe, Carolyn Somers, Pauline James, Richard Bentley, Sam E. Tanner, Dick Payne, Charlotte A. DuBois, Margaret Stearns, Bill Stearns, Nancy O'Kelley, Buford Slay, Jimmy Reaney, Anna May Davis, L. Irby Davis.

344. Houston, Tex. (lower portion of San Jacinto River from mouth to point 15 miles upstream, near Sheldon; heavy woods of pine and oak, cypress swamps, open fields, salt-water estuary, river bottom; same area as previous years).—Dec. 26; 7 a.m. to 5:30 p.m. Foggy, with light showers in a.m., fog lifting for a few hours near noon, then foggy again later in p.m.; temp. 59° to 52° wind NE, light. Twenty-one observers in 5 parties. Total party-hours, 37; total party-miles, 236 (211 by car, 25 on foot). Common Loon, 1; Least Grebe, 3 (well identified by people familiar with species farther south; a northward invasion of the species this year); Pied-billed Grebe, 47; White Pelican, 27; Brown Pelican, 63; Double-crested Cormorant, 148; Water-turkey, 2; Great Blue Heron, 40; Am. Egret, 45; Snowy Egret, 7; Louisiana Heron, 22; Little Blue Heron, 10; Black-crowned Night Heron, 1; Am. Bittern, 1; Canada Goose, 18; White-fronted Goose, 7; Snow Goose, 48; Blue Goose, 24; Mallard, 8; Gadwall, 35; Baldpate, 100; Pintail, 173; Green-winged Teal, 5; Blue-winged Teal, 1; Shoveller, 10; Ring-necked Duck, 8; Lesser Scaup Duck, 49; Turkey Vulture, 3; Black Vulture, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 30; Harlan's Hawk, 1; Red-shouldered Hawk, 11; Marsh Hawk, 28; Osprey, 1; Pigeon Hawk, 1; Sparrow Hawk, 73; Bob-white, 1; Virginia Rail, 1; Sora, 1; Yellow Rail, 1; Florida Gallinule, 1; Am. Coot, 2000 (est.); Killdeer, 57; Black-bellied Plover, 1; Woodcock, 1; Wilson's Snipe, 4; Lesser Yellow-legs, 2; Western Sandpiper, 40; Herring Gull, 60; Ring-billed Gull, 164; Laughing Gull, 55; Gull-billed Tern, 5; Forster's Tern, 28; Royal Tern, 3; Caspian Tern, 7; Mourning Dove, 41; Barn Owl, 2; Barred Owl, 5; Belted Kingfisher, 16; Yellow-shafted Flicker, 28; Red-shafted Flicker, 4 (red "mustache" noted; birds in one group feeding on ground); Pileated Woodpecker, 6; Red-bellied Woodpecker, 12; Red-headed Woodpecker, 2; Yellow-bellied Sapsucker, 15; Hairy Woodpecker, 4; Downy Woodpecker, 7; Eastern Phoebe, 42; Tree Swallow, 110; Rough-winged Swallow, 12 (identified carefully by J.M.H.; fairly regular now on

Christmas Bird Counts); Blue Jay, 62; Am. Crow, 32; Carolina Chickadee, 82; Tufted Titmouse, 79; Brown-headed Nuthatch, 2; Brown Creeper, 5; House Wren, 19; Winter Wren, 7; Carolina Wren, 53; Long-billed Marsh Wren, 1; Short-billed Marsh Wren, 2; Mockingbird, 184; Brown Thrasher, 39; Robin, 87; Wood Thrush, 1 (reddish head and heavily spotted underparts—W.H.G.); Hermit Thrush, 16; Eastern Bluebird, 128; Blue-gray Gnatcatcher, 33; Golden-crowned Kinglet, 2; Ruby-crowned Kinglet, 82; Am. Pipit, 49; Cedar Waxwing, 52; Loggerhead Shrike (Migrant and White-rumped), 107; Starling, 465; White-eyed Vireo, 2; Solitary Vireo, 4; Orange-crowned Warbler, 19; Myrtle Warbler, 129; Pine Warbler, 48; Yellow-throat, 4; English Sparrow, 183; Eastern Meadowlark, 289; Red-wing, 27; Brewer's Blackbird, 12,000 (est.); Boat-tailed Grackle, 200 (est.); Purple Grackle, 50; Brown-headed Cowbird, 15,000; Cardinal, 262; Dickcissel, 4 (an incredible record, but birds observed with 8X glasses at 12 and 20 yds., yellow breast and black bib noted; carefully distinguished by persons very familiar with the species—W.H.G.); Am. Goldfinch, 444; Eastern Towhee, 5; Savannah Sparrow, 260 (at least 3 subspecies represented); Vesper Sparrow, 5; Slate-colored Junco, 2; Chipping Sparrow, 2; Field Sparrow, 12; White-crowned Sparrow, 12; White-throated Sparrow, 179; Fox Sparrow, 3; Lincoln's Sparrow, 7; Swamp Sparrow, 18; Song Sparrow, 1. **Total,** 123 species; about 34,551 individuals.—Agatha Boettcher, Lawrence Erunson, C. E. Buehner, Nance Cunningham, Walter Dieckert, Mary Gentry, Marilyn Gill, Mr. and Mrs. W. H. Gottsch, Billy Green, Mr. and Mrs. C. W. Hamilton, J. M. **Heiser, Edna Miner, Elwyn Simons, Leota Stillwell,** Carrie Wilcox, George G. Williams, Stephen Williams, Ella Wolfer, John R. Young (Houston Outdoor Nature Club).

345. Laguna Atascosa National Wildlife Refuge, San Benito (Cameron Co.), Tex. (7½-mile radius, centered on north side of Laguna Atascosa 16 air miles northeast of San Benito; mesquite-chaparral woodland 25%, low brush-covered ridges 10%, farmlands 15%, coastal prairie 15%, fresh-water marshes and shallow lakes 25%, brackish water shoreline 10%).—Dec. 30; 5:30 a.m. to 6 p.m. Mostly overcast; temp. 62° to 77°; wind E. average 9.7 m.p.h., maximum 18 m.p.h., in p.m.; ground muddy. Eighteen observers in 6 parties. Total hours, 54; total miles, 124 (100 by car, 24 by foot). Common Loon, 1; Eared Grebe, 3; Least Grebe, 3; Pied-billed Grebe, 9; White Pelican, 295; Brown Pelican, 72; Double-crested Cormorant, 15; Mexican Cormorant, 223; Water-turkey, 2; Great Blue Heron (Ward's), 97; Am. Egret, 32; Snowy Egret, 18; Reddish Egret, 42; Louisiana Heron, 2; Little Blue Heron, 2; Black-crowned Night Heron, 3; Least Bittern, 1; Wood Ibis, 2; Canada Goose, 225 (Lesser, 223; Hutchins's, 2); White-fronted Goose, 164; Mallard, 13; Mottled Duck, 51; Gadwall, 610; Baldpate, 111; Pintail, 165; Green-winged Teal, 336; Blue-winged Teal, 190; Cinnamon Teal, 9 (nearly all highly colored males, first seen Dec. 6—L.C.G.); Shoveller, 55; Redhead, 43,000 (est.); Lesser Scaup Duck, 32; Buffle-head, 2; Ruddy Duck, 5; Red-breasted Merganser, 4; Turkey Vulture, 19; Black Vulture, 51; White-tailed Kite, 8; Sharp-shinned Hawk, 2; Cooper's Hawk, 7; Red-tailed Hawk, 6; Red-shouldered Hawk, 1; Swainson's Hawk, 1; Sennett's White-tailed Hawk, 5; Ferruginous Hawk, 2; Harris's Hawk, 60; Marsh Hawk, 60; Osprey, 2; Audubon's Caracara, 14; Peregrine Falcon, 8; Sparrow Hawk, 49; Chachalaca, 1; Bob-white, 59; Sandhill Crane, 18; Florida Gallinule, 1; Am. Coot, 435; Piping Plover, 5; Semipalmated Plover, 10; Killdeer, 21; Black-bellied Plover, 5; Ruddy Turnstone, 15; Wilson's Snipe, 22; Long-billed Curlew, 561; Spotted Sandpiper, 2; Eastern Willet, 40; Greater Yellow-legs, 28; Lesser Yellow-legs, 8; Least Sandpiper, 144; Red-backed Sandpiper, 296; Dowitcher, 257; Stilt Sandpiper, 32 (not too uncommon in winter here and in Lower Rio Grande Valley—L.C.G., L.I.D., T.G.); Semipalmated Sandpiper, 47; Western Sandpiper, 255; Sanderling, 8; Avocet, 145; Herring Gull, 56; Ring-billed Gull, 27; Laughing Gull, 14; Gull-billed Tern, 36; Forster's Tern, 27; Common Tern, 2; Caspian Tern, 37; Black Skimmer, 20; Mourning Dove, 18; Ground Dove, 5; Road-runner, 4; Barn Owl, 3; Screech Owl, 2; Horned Owl, 2; Burrowing Owl, 1; Short-eared Owl, 7; Merrill's Pauraque, 6; Belted Kingfisher, 9; Golden-fronted Woodpecker, 28; Ladder-backed Woodpecker, 29; Couch's Kingbird, 3; Derby Flycatcher, 26; Eastern Phoebe, 17; Say's Phobe, 1; Vermilion Flycatcher, 23; Horned Lark, 54; Green Jay, 20; White-necked Raven, 2; Black-crested Titmouse, 13; Verdin, 3; House Wren, 10; Bewick's Wren, 11; Cactus Wren, 1; Long-billed Marsh Wren, 10; Short-billed Marsh Wren, 5; Mockingbird, 122; Curve-billed Thrasher, 24; Robin, 4; Eastern Bluebird, 9; Blue-gray Gnatcatcher, 4; Am. Pipit, 20; Sprague's Pipit, 3; Loggerhead Shrike, 42; Starling, 1; White-eyed Vireo, 3; Orange-crowned Warbler, 4; Nashville Warbler, 1; Myrtle Warbler, 23; Yellow-throat, 20; English Sparrow, 11; Eastern Meadowlark (Rio Grande), 330; Western Meadowlark, 1; Red-wing, 5800 (est.); Audubon's Oriole, 5; Brewer's Blackbird, 20; Boat-tailed Grackle, 419; Brown-headed Cowbird, 100; Red-eyed Cowbird, 3; Cardinal, 22; Texas Sparrow, 5; Savannah Sparrow, 242; Grasshopper Sparrow, 11; Baird's Sparrow, 1; Vesper Sparrow, 1; Lark Sparrow, 60; Black-throated Sparrow, 25; Clay-colored Sparrow, 2; Lincoln's Sparrow, 11; Swamp Sparrow, 11; Song Sparrow, 9. **Total,** 144 species (1 additional subspecies); 56,406 individuals.—Richard Bentley, L. Irby Davis, Mrs. L. Irby Davis, Robert Drawe, Jr., Sharlene Gerrick, Terry Gill, Luther C. Goldman, Thos. P. Harrison, Jr., C. E. Hudson, Jr., Pauline James, William S. Jennings, Marshall C. Johnston, Nancy O'Kelly, Dick S. Payne, Earl Sanders, Carolyn Somers, Sam E. Tanner, Marshall Ross Wortham.

346. Midland, Tex. (same area and habitats as last year).—Dec. 29; 7:30 a.m. to 5:30 p.m. Over-

cast, foggy, misty to rain; temp. 47° to 56°; wind SE, 5-15 m.p.h.; ground wet; water open. Three observers together for 7½ hours, 2 observers for 1½ hours. Total hours, 9 (3½ on foot, 5½ in car); total miles, 76 (4 on foot, 72 in car). Mallard, 410 (400±100, 10); Canvas-back, 126; Lesser Scaup Duck, 12; Red-tailed Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 2; Scaled Quail, 9; Am. Coot, 30; Killdeer, 4; Long-billed Curlew, 31; Mourning Dove, 3; Red-shafted Flicker, 5; Ladder-backed Woodpecker (Texas), 1; House wren, 1; Mockingbird, 9; Robin, 17; Loggerhead Shrike, 4; Starling, 731 (500±100, 231); Orange-crowned Warbler, 2; Myrtle Warbler, 3; English Sparrow, 306; Western Meadowlark, 108; Red-wing, 1; Brown-headed Cowbird, 2015 (2000±200, 15); Cardinal, 1; Am. Goldfinch, 3; Lark Bunting, 746; Vesper Sparrow, 36; Field Sparrow, 5 (in flocks of White-crowned Sparrows; identified by small size, divided rufous crown, pale buff on shoulder, paler general coloration than immature White-crowns—M.K.G.); White-crowned Sparrow, 88. **Total,** 30 species; about 4711 individuals. (White-necked Raven, common resident, not observed. Seen in area Dec. 31: Cooper's Hawk, 1.)—Margret K. Galley, David O. and Edith Force Kassing.

347. Muleshoe National Wildlife Refuge, Muleshoe (Bailey Co.), Tex. (refuge headquarters east over trail to Goose Lake spillway, north along Highway 214 and into Paul's Lake unit, returning over Highway 214 and headquarters road; lakes and ponds 50%, prairie 40%, farmland 9%, refuge nursery 1%).—Dec. 28; 8 a.m. to 5 p.m. Clear; temp. 18° to 34°; wind W to E, 15-20 m.p.h.; open water on 70% of lakes. Total hours, 8; total miles, 12 (8 by car, 4 on foot). Canada Goose, 415; Mallard, 230,000; Baldpate, 90,000; Pintail, 138,000; Green-winged Teal, 400; Blue-winged Teal, 375; Shoveller, 1180; Redhead, 36; Canvas-back, 28; Am. Golden-eye, 1; Ruddy Duck, 323; Bald Eagle, 3; Marsh Hawk, 6; Scaled Quail, 42; Sandhill Crane, 188; Mourning Dove, 31; meadowlark [sp.], 29. **Total,** 17 species; approximately 461,057 individuals.—Charles R. Bryant, Refuge Manager.

348. Rio Grande City, Tex. (7½-mile radius centered 7 miles east of Rio Grande City on U.S. Highway 83; river-bottom woodland 5%, cultivated land 15%, desert scrub 80%).—Dec. 28; 6:30 a.m. to 7 p.m. Cloudy; temp. 60° to 67°; wind N, 2-6 m.p.h. Sixteen observers in 6 parties. Total hours, 75 (20 on foot); total miles, 150 (40 on foot). Least Grebe, 1; Pied-billed Grebe, 1; White Pelican, 16; Mexican Cormorant, 1; Great Blue Heron, 4; Am. Egret, 21; Snowy Egret, 67; Little Blue Heron, 1; White Ibis, 3; Gadwall, 44; Baldpate, 7; Pintail, 18; Green-winged Teal, 3; Blue-winged Teal, 17; Shoveller, 16; Turkey Vulture, 28; Black Vulture, 58; Sharp-shinned Hawk, 2; Cooper's Hawk, 8; Red-tailed Hawk, 13; Red-shouldered Hawk, 15; Harris's Hawk, 33; Marsh Hawk, 21; Peregrine Falcon, 1; Sparrow Hawk, 25; Chachalaca, 2; Scaled Quail, 62; Killdeer, 119; Spotted Sandpiper, 5; Greater Yellow-legs, 7; Least Sandpiper, 85; Dowitcher, 3; Western Sandpiper, 10; Black-necked Stilt, 11; Red-billed Pigeon, 3; Mourning Dove, 113; Ground Dove, 15; Inca Dove, 22; White-fronted Dove, 8; Road-runner, 5; Barn Owl, 1; Screech Owl, 1; Horned Owl, 3; Belted Kingfisher, 2; Green Kingfisher, 1; Red-shafted Flicker, 2; Golden-fronted Woodpecker, 93; Ladder-backed Woodpecker, 44; Couch's Kingbird, 3; Derby Flycatcher, 15; Eastern Phoebe, 30; Say's Phoebe, 5; Vermilion Flycatcher, 12; Green Jay, 67; White-necked Raven, 161; Black-crested Titmouse, 45; Verdin, 9; House Wren, 3; Bewick's Wren, 20; Carolina Wren, 1; Cactus Wren, 12; Mockingbird, 165; Sennett's Thrasher, 7; Curve-billed Thrasher, 22; Sage Thrasher, 2; Robin, 310; Eastern Bluebird, 110; Blue-gray Gnatcatcher, 61; Blue-gray Gnatcatcher (Plumbeous), 1; Ruby-crowned Kinglet, 22; Am. Pipit, 3; Sprague's Pipit, 1; Cedar Waxwing, 253; Loggerhead Shrike, 43; Starling, 7; White-eyed Vireo, 9; Solitary Vireo, 2; Black and White Warbler, 2; Orange-crowned Warbler, 18; Myrtle Warbler, 217; Audubon's Warbler, 4; Black-throated Green Warbler, 1; Yellow-throated Warbler (Sycamore), 1; Yellow-throat, 6; Black-capped Warbler, 1; English Sparrow, 154; meadowlark [sp.], 134; Red-wing, 13,000; Audubon's Oriole, 16; Hooded Oriole, 1; Brewer's Blackbird, 12; Boat-tailed Grackle, 275; Brown-headed Cowbird, 5; Red-eyed Cowbird, 1; Cardinal, 126; Pyrrhuloxia, 65; Sharpe's Seedeater, 10; Am. Goldfinch, 113; Texas Sparrow, 18; Lark Bunting, 138; Lark Sparrow, 43; Black-throated Sparrow, 123; Clay-colored Sparrow, 24; White-crowned Sparrow, 64; White-throated Sparrow, 6; Song Sparrow, 4. **Total,** 106 species; about 17,024 individuals.—A. C. Becker, Richard Bentley, Anna May Davis L. Irby Davis, Robert Drawe, Sam Fannin, Terry Gill, Luther Goldman, Ned Hudson, Pauline James, W. S. Jennings, Marshall Johnston, Nancy O'Kelly, Dick Payne, Carolyn Somers, Marshal Wortham.

349. Rockport, Tex. (6 miles north of Rockport to Copano Bay causeway, 5 miles west to Rattlesnake Point, 8 miles south to Aransas Pass; shore line 30%, mesquite chaparral 30%, wet prairies 20%, salt flats 10%, fresh-water pools 5%, low oak brush 5%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Overcast, with intermittent heavy showers; temp. 58° to 61°; calm at start, mild norther, 1-12 m.p.h., came in at 8:30 a.m.; tide high all day (only wind tides in this area). Three observers in 2 parties. Total hours, 20 (9 on foot, 11 by car); total miles, 58 (12 on foot, 46 by car). Common Loon, 2; Horned Grebe, 2; Eared Grebe, 205 (200 est., 5); Least Grebe, 3; Pied-billed Grebe, 215; White Pelican, 6; Brown Pelican, 26; Double-crested Cormorant, 35; Mexican Cormorant, 14; Great Blue Heron, 45; Am. Egret, 36; Snowy Egret, 36; Reddish Egret, 28 (including 1 white phase—R.M.L.); Louisiana Heron, 6; Little Blue Heron, 4; Green Heron, 1 (very unusual in winter—Lockwoods); Black-crowned Night Heron, 1; Yellow-crowned

Night Heron, 1; White-faced Ibis, 78; White Ibis, 80; Canada Goose, 250; Snow Goose, 24; Blue Goose, 20; Black Duck, 3; Gadwall, 546 (400 est., 146); Pintail, 10,775 (10,000 est., 775); Blue-winged Teal, 6; Cinnamon Teal, 1 (C.N.H.); Baldpate, 856 (500 est., 356); Shoveller, 68; Redhead, 600 (500 est., 100); Ring-necked Duck, 13; Canvasback, 16; Greater Scaup Duck, 3; Lesser Scaup Duck, 170; Am. Golden-eye, 35; Buffle-head, 6; Ruddy Duck, 532 (500 est., 32); Red-breasted Merganser, 3; Turkey Vulture, 24; Black Vulture, 42; Red-tailed Hawk, 4; Marsh Hawk, 10; Peregrine Falcon, 2; Pigeon Hawk, 1; Sparrow Hawk, 31; Bob-white, 6; Am. Coot, 1246 (700 est., 546); Am. Oyster-catcher, 4; Piping Plover, 3; Snowy Plover, 1; Semipalmated Plover, 4; Killdeer, 52; Black-bellied Plover, 30; Ruddy Turnstone, 26; Wilson's Snipe, 66; Long-billed Curlew, 461 (300 est., 161); Spotted Sandpiper, 1; Willet, 64; Greater Yellow-legs, 53; Lesser Yellow-legs, 6; Least Sandpiper, 33; Red-backed Sandpiper, 154; Dowitcher, 111; Stilt Sandpiper, 1 (C.N.H.); Semipalmated Sandpiper, 8; Western Sandpiper, 30; Marbled Godwit, 1; Sanderling, 19; Avocet, 23; Herring Gull, 56; Ring-billed Gull, 162; Laughing Gull, 65; Gull-billed Tern, 20; Forster's Tern, 18; Royal Tern, 52; Caspian Tern, 18; Black Skimmer, 8; Mourning Dove, 136; Ground Dove, 22; Inca Dove, 3; Belted Kingfisher, 12; Yellow-shafted Flicker, 3; Red-shafted Flicker, 1; Red-headed Woodpecker, 2; Ladder-backed Woodpecker, 9; Eastern Phoebe, 29; Vermilion Flycatcher, 6; Horned Lark, 82; Black-crested Titmouse, 30; Brown Creeper, 1 (most unusual, only one other record this area—R.M.L.); House Wren, 14; Bewick's Wren, 5; Short-billed Marsh Wren, 1; Mockingbird, 65; Brown Thrasher, 2; Robin, 50; Hermit Thrush, 2; Eastern Bluebird, 7; Blue-gray Gnatcatcher, 21; Ruby-crowned Kinglet, 35; Am. Pipit, 40; Sprague's Pipit, 3 (regular winter resident); Loggerhead Shrike, 16; Starling, 71; White-eyed Vireo, 1; Solitary Vireo, 1; Orange-crowned Warbler, 10; Myrtle Warbler, 64; Pine Warbler, 6; Yellow-throat, 15; English Sparrow, 94 (living wild in skirts of palms); Eastern Meadowlark, 334; Red-wing, 156 (100 est., 56); Boat-tailed Grackle, 328; Brown-headed Cowbird, 1000 (est.); Cardinal, 39; Pine Siskin, 6 (C.N.H.); Am. Goldfinch, 104; Savannah Sparrow, 39; Leconte's Sparrow, 1; Lark Sparrow, 19; Field Sparrow, 8; White-throated Sparrow, 6; Lincoln's Sparrow, 33; Swamp Sparrow, 1. **Total,** 125 species; about 20,600 individuals. Regular winter residents missed on census, but seen daily before and after: Am. Bittern, White-fronted Goose, Mottled Duck, Green-winged Teal, Sennett's White-tailed Hawk, Audubon's Caracara, Sandhill Crane, Clapper Rail, Road-runner, Yellow-bellied Sapsucker, Sennett's Thrasher, Grasshopper Sparrow, Vesper Sparrow.—Mrs. Conger N. Hagar, Dr. and Mrs. Robert M. Lockwood.

350. Sabinal, Tex. (town and surrounding portions of eastern Uvalde County: along U.S. Highway 90 to point 4 miles east of town, on and near roads to point 5 miles southwest, 9 miles northeast, and 6 miles south of town; town [houses, paved and gravel streets, vacant lots with bushes and trees] 5%, cultivated fields [mostly covered with young growing oats] 50%, mesquite (*Prosopis glandulosa*)-guajillo (*Acacia berlandieri*) brushland 20%, live oak (*Quercus virginiana*)-"cedar" (*Juniperus mexicana*)-mesquite brushy woods 20%, hackberry (*Celtis* sp.)-whitebrush (*Aloysia ligustrina*) thicket 1%, bald cypress (*Taxodium distichum*)-gravel and water river bed 4%).—Dec 28; 7 a.m. to 7 p.m. Overcast to partly cloudy; temp. 45° to 79°; wind NE to SE, 25 m.p.h. at 7 a.m., 0-3 m.p.h. after 8 a.m.; ground dry except in northwest corner of count area, where damp; water in Sabinal River open, partially clear, low. Total hours, 12 (4 on foot, 8 in car); total miles, 79½ (3 on foot, 76½ in car). Great Blue Heron, 2; Gadwall, 4; Black Vulture, 26; Red-tailed Hawk, 8; Harris's Hawk, 4 (3 ad., 1 imm.); Marsh Hawk, 6; Sparrow Hawk, 5; Turkey, 4; Killdeer, 5; Wilson's Snipe, 4; Mourning Dove, 132; Inca Dove, 2; Yellow-shafted Flicker, 1; Golden-fronted Woodpecker, 16; Yellow-bellied Sapsucker, 1; Ladder-backed Woodpecker, 9; Eastern Phoebe, 3; Black-crested Titmouse, 5; Verdin, 5; Bewick's Wren, 6; Carolina Wren, 1; Cactus Wren, 1; Cañon Wren, 1; Mockingbird, 19; Robin, 21; Eastern Bluebird, 69; Blue-gray Gnatcatcher, 1; Ruby-crowned Kinglet, 3; Cedar Waxwing, 59; Loggerhead Shrike, 17; Starling, 150; White-eyed Vireo, 1; English Sparrow, 25; Meadowlark [sp.], 111; Red-wing, 3; Purple Grackle, 48; Brown-headed Cowbird, 27; Cardinal, 8; Pyrrhuloxia, 5; House Finch, 4; Am. Goldfinch, 1; Green-tailed Towhee, 1; Spotted Towhee, 5; Lark Bunting, 102 (1 small and 2 large flocks); Vesper Sparrow, 21; Lark Sparrow, 3; Black-throated Sparrow, 8; Slate-colored Junco, 5; Field Sparrow, 4; White-crowned Sparrow, 18. **Total,** 50 species; 990 individuals. (Seen in count area Dec. 25; Ground Dove, 1; Rock Wren, 1; House Wren also frequently observed in area this fall and winter.)—Edgar Kincaid, Jr.

351. Billings, Mont. (from city 15 miles eastward through irrigated valley along north side of Yellowstone River to Huntley; irrigated farmland 60%, timbered bottomland 25%, coulee and dry benchland 10%, rimrock cliff 5%).—Jan. 2; 9 a.m. to 4:30 p.m. Overcast, occasional flurries of snow; temp. −15° to −10° to −15°; wind NE, 10-15 m.p.h.; ground covered with 6-in. crusted snow; river completely covered with ice in many places. Three observers together. Total party-hours, 6½ (3 by car, 3½ by foot); total miles, 44 (40 by car, 4 on foot). Mallard, 3; Am. Golden-eye, 30; Am. Merganser, 20; Red-breasted Merganser, 1; Rough-legged Hawk, 2; Ferruginous Hawk, 1; Marsh Hawk, 1; European Partridge, 5; Ring-necked Pheasant, 67; Horned Owl, 1; Short-eared Owl, 1; Red-shafted Flicker, 1; Am. Magpie, 22; Black-capped Chickadee, 11; Northern Shrike, 2; Starling, 10; English Sparrow, 22; Tree Sparrow, 2; Swamp Sparrow, 10; Song Sparrow, 1. **Total,** 20 species; 213 individuals.—J. Byrn, L. Peterson, B. Rounds.

352. Bozeman, Mont. (around town, Sunset Hills Cemetery, municipal dump, to Federal fish hatchery, 12 miles up Bridger Canyon and return, East Gallatin River to McIlhattan Pony Ranch and return to town in a.m.; in p.m., along Sourdough Road and old icehouse area, Montana State College campus, Huffine Lane to Shedd's Bridge on West Gallatin River, Jack Rabbit Lane to Belgrade, Gallatin Field to Spring Hill Road and return to town via U.S. 10; irrigated farmland 50%, town and associated areas 20%, river bottoms 10%, open rangeland 10%, mountain canyon 10%).—Dec. 27; 8 a.m. to 4:30 p.m. Cloudy; temp. 28° to 38°, chinook wind SW, 0-30 m.p.h.; ground covered with 0-6-in. snow. Two observers together. Total party-hours, 8½ (7 by car, 1½ on foot); total miles, 90 (mostly by car). Mallard, 132; Rough-legged Hawk, 6; Marsh Hawk, 1; unidentified falcon (possibly Prairie), 1; Ring-necked Pheasant, 3; Belted Kingfisher, 1; jay (probably Steller's), 1; Wilson's Snipe, 1; Killdeer, 2; European Partridge, 8; Sharp-tailed Grouse, 6; Am. Magpie, 143; Common Raven, 4; Am. Crow, 6; Mountain Cickadee, 4; Brown Creeper, 3; Dipper, 1; Townsend's Solitaire, 2; Bohemian Waxwing, 20; Loggerhead Shrike, 2; Starling, 100; English Sparrow, 750; Pine Grosbeak (probably, but heard and seen at a distance), 3; junco (sp.), 2. **Total,** 23 species; 1202 individuals.—C. V. Davis, H. N. Metcalf.

353. Fortine, Mont. (farms, river-flats, and forests in central Fortine Valley, regular territory; mature larch-fir-pine forest 20%, second-growth fir-larch-lodgepole woods 45%, riverbottom spruce-aspen woods 25%, fields and open hills 10%).—Dec. 30; 8 a.m. to 5 p.m. Partly cloudy; temp. 24° to 30°; wind SE, variable under 15 m.p.h.; 2-5-in. old snow on ground; streams open. Total hours, 9; total miles, 15 (on foot). Mallard, 8; Ruffed Grouse, 4; Hairy Woodpecker, 2; Steller's Jay, 2; Am. Magpie, 1; Common Raven, 11; Clark's Nutcracker, 8; Black-capped Chickadee, 5; Mountain Chickadee, 10; White-breasted Nuthatch, 4; Snow Bunting, 1. **Total,** 11 species; 56 individuals. (Number of species remarkably small, less than half the average of past 23 annual counts in same area.)—Winton Weydemeyer.

354. Lake Bowdoin National Wildlife Refuge, Malta (Phillips Co.), Mont. (circuit of refuge including shelterbelt groves, Dry Lake, Lake Bowdoin and Black Coulee; prairie 60%, frozen marsh 35%, shelterbelt groves 5%).—Dec. 28; 8 a.m. to 4 p.m. Cloudy at start becoming partly cloudy about 10 a.m. with light snow falling; temp. −12° to 5° to −13°; wind NW to E, 5 m.p.h.; snow averaging 7 in. deep; all water frozen. Two observers together. Total hours, 8; total miles, 24 (22 by car, 2 on foot). Sharp-tailed Grouse, 15 (12 est., 3); European Partridge, 30 (22 est., 8); Ring-necked Pheasant, 1000 (371 est., 629); Golden Eagle, 1; Horned Owl, 1; Snowy Owl, 1; Short-eared Owl, 5; Horned Lark, 317 (300 est., 17); Am. Magpie, 2; Starling, 58; Tree Sparrow, 42; Snow Bunting, 300. **Total,** 12 species; about 1772 individuals. (Seen in area Dec. 30; Golden Eagle, 6; Peregrine Falcon, 1; Bohemian Waxwing, 50).—Leon C. Snyder, Norman S. Haugness.

355. Casper, Wyo. (North Platte River valley from just east of town to Speas Ranch warm springs on west including adjacent prairies and Casper Mountain; altitude varying from 5100 ft. on prairie to 8000 ft. on mountain top; sage brush prairie and foothills 50%, cottonwood creek bottoms 20%, high altitude lodgepole pine forest 20%, juniper foothills 5%, urban 5%).—Jan. 1; 7:30 a.m. to 5 p.m. Partly cloudy; temp. 40°; wind SW, 20 m.p.h. on prairie, higher on mountain; all water frozen except for area of river kept open by warm springs; 1-ft. snow on mountain, bare ground and small drifts on prairie. Fifteen observers in 5 parties. Total hours, 40; total miles, 204 (170 by car, 26 by foot, 8 by ski and snowshoe). Mallard, 305; Baldpate, 1; Am. Golden-eye, 10; Am. Merganser, 9; Red-tailed Hawk, 1; Golden Eagle, 3; Bald Eagle, 1; Marsh Hawk, 3; Prairie Falcon, 1; Sage Hen, 4; Ring-necked Pheasant, 5; Wilson's Snipe, 3; Horned Owl, 9; Belted Kingfisher, 2; Red-shafted Flicker, 11; Downy Woodpecker, 3; Horned Lark, 24; Am. Magpie, 360; Clark's Nutcracker, 4; Black-capped Chickadee, 27; Mountain Chickadee, 4; Dipper, 1; Robin, 1; Starling, 222; English Sparrow, 1189; Western Meadowlark, 4; Gray-crowned Rosy Finch, 77; Tree Sparrow, 9. **Total,** 28 species; 2293 individuals.—A. Brady, L. R. Burkhart, R. R. Burkhart, F. Freeman, W. Lease, Miss S. Mann, A. McGregor, P. W. Netterstrom, J. M. Parker, O. K. Scott, B. E. Stephenson, B. E. Stephenson, Jr., J. Whitman, Mr. and Mrs. J. M. Ziegler.

356. Grand Teton National Park, Moose, Wyo. (from park headquarters west along general course of Beaver Creek, south along base of Teton Mountains to Phelps Lake moraine, east to west banks of Snake River, northeast through Snake River bottoms to highway at Moose; forested area of lodgepole pine, alpine fir, Douglas fir, spruce, aspen, alder, and willow; open sagebrush land; river-bottom area of cottonwood, willow, alder, aspen, and dense stands of Colorado blue spruce).—Dec. 29; 8 a.m. to 5 p.m. Clear most of day with light clouds in early a.m. and partly cloudy at 4 p.m.; temp. 0° to 31° to 25°; light SW breeze in late p.m.; snow 1 ft. deep; streams and springs free of ice. Two observers together. Total hours, 9; total miles, 12 (on skis). Mallard, 36; Barrow's Goldeneye, 8; Am. Merganser, 5; Golden Eagle, 2; Bald Eagle, 1; Ruffed Grouse, 11; Hairy Woodpecker, 7; Downy Woodpecker, 2; Canada Jay, 4; Steller's Jay, 5; Am. Magpie, 10; Common Raven, 15; Clark's Nutcracker, 19; Black-capped Chickadee, 11; Mountain Chickadee, 34; White-breasted Nuthatch, 2; Red-breasted Nuthatch, 3; Dipper, 2; Ruby-crowned Kinglet, 7 [no details—Ed.]; Pine Grobeak, 11. **Total,** 20 species; 195 individuals.—Blake C. Van de Water, Carl E. Jepson.

357. Barr Lake, Colo. (Barr Lake area including seepage ditch northeast to Mile High Gun Club lakes, and west to Platte River; wooded area 25%, adjacent prairie and irrigated farmland 60%, several small lakes and adjacent seepage canals 15%).—Jan. 1; 6:30 a.m. to 4 p.m. Clear; temp. 25° to 30°; wind NW, slight; ground slightly snow-covered in shaded areas only; Barr Lake two-thirds frozen, all small lakes frozen, seepage ditches running free. Seven observers in 2 parties. Total hours, 12; total miles, 20 (4 by foot, 16 by car). Mallard, 22,000 (±1000); Baldpate, 2; Pintail, 1; Shoveller, 2; Am. Golden-eye, 1; Am. Merganser, 7; Red-tailed Hawk, 2; Rough-legged Hawk, 24; Golden Eagle, 2; Bald Eagle, 3; Marsh Hawk, 18; Prairie Falcon, 2; Sparrow Hawk, 1; Ring-necked Pheasant, 30; Killdeer, 1; Wilson's Snipe, 1; Herring Gull, 13; Mourning Dove, 4; Horned Owl, 3; Short-eared Owl, 4; Red-shafted Flicker, 10; Lewis's Woodpecker, 1; Downy Woodpecker, 2; Horned Lark, 320; Am. Magpie, 200 (±10); Am. Crow, 3; Black-capped Chickadee, 6; Robin, 4 (V.R.); Northern Shrike, 1; Starling, 97; English Sparrow, 40; Western Meadowlark, 72; Red-wing, 3000 (±500); House Finch, 275 (±20); goldfinch (sp.), 17; Oregon Junco, 9 (Shufeldt's, 1 Pink-sided, 8); Slate-colored Junco, 4; Gray-headed Junco, 1; Tree Sparrow, 92; White-crowned Sparrow, 27; Song Sparrow, 105. **Total,** 41 species (1 additional subspecies); about 26,407 individuals. A very unusual concentration of *Buteo* hawks present several weeks prior to count; large numbers of Ferruginous and Rough-legged Hawks present. Such a concentration rare so late in year.—Ralph Asbury, A. Lang Bailey, Ferd Kleinschnitz, Ben Pfretzchner, Virgil Rosenbaum, Donald M. Thatcher, Harold Webster (Colorado Bird Club).

358. Durango, Colo. (south from town 15 miles to Bondad, principally in Animas River valley, with side trips across Florida Mesa into Florida River valley; scrub oak and piñon-covered hillsides 50%, open farmland and weed patches 15%, cottonwood groves and willow thickets along river banks 10%, sage-brush and brush-covered flats on valley floors 25%, elevation 6000 to 7000 ft.)—Dec. 27; 7 a.m. to 5:30 p.m. Clear; temp. −1° to 45° to 25°; no wind or less than 1 m.p.h.; entire area covered with 8-10-in. old crusted snow; all ponds and still water frozen, rivers lined with ice and in places frozen entirely across. Five observers together. Total hours, 10½ (4½ by car, 6 by foot); total miles, 100 (95 by car, 5 on foot). Great Blue Heron, 1; Am. Merganser, 10; Turkey Vulture, 2; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Swainson's Hawk, 1 [no details—Ed.]; Bald Eagle, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 2; Killdeer, 4; Red-shafted Flicker, 10; Lewis's Woodpecker, 1; Horned Lark, 35; Steller's Jay, 3; Scrub Jay, 8; Am. Magpie, 35; Common Raven, 2; Piñon Jay, 20; Black-capped Chickadee, 1; Mountain Chickadee, 25; Plain Titmouse, 1; Bush-tit, 35; White-breasted Nuthatch, 1; Pygmy Nuthatch, 1; Brown Creeper, 1; Dipper, 1; Robin, 20; Mountain Bluebird, 2; Townsend's Solitaire, 10; Loggerhead Shrike, 2; English Sparrow, 225; Western Meadowlark, 3; Red-wing, 85; Cassin's Finch, 15; House Finch, 8; Pine Siskin, 8; Slate-colored Junco, 15; Oregon Junco, 160 (including Pink-sided, 10); Gray-headed Junco, 500; Tree Sparrow, 54; Chipping Sparrow, 15 [no details—Ed.]; Song Sparrow, 17. **Total,** 42 species; about 1343 individuals.—Oppie Reams, Thomas J. Frizell, David, Joseph, Marion Brown Borden.

359. Fort Collins, Colo. (same area as last year; open farmland 38%, cottonwood riverbottom 20%, ponderosa pine-Douglas fir mountain canyons 15%, mountain mahogany foothills 7%, city park-cemetery-town mixed growth 7%, bullrush and cattail marshes 3%, irrigation reservoirs 10%).—Dec. 29; 7 a.m. to 5 p.m. Clear; temp. 16° to 55° to 33°; wind E to S to W, 1-4 m.p.h.; ground bare to sparsely covered with snow; all fresh water frozen except parts of Cache la Poudre River. Seven observers in 3 parties in both a.m. and p.m. Total hours, 25 (15 on foot, 10 by car); total miles, 165 (15 on foot, 150 by car). Mallard, 2530 (±50); Pintail, 11; Goshawk, 1; Green-winged Teal, 9; Red-tailed Hawk, 1; Rough-legged Hawk, 4; Golden Eagle, 1; Bald Eagle, 2; Marsh Hawk, 5; Pigeon Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 35; Killdeer, 7; Wilson's Snipe, 3; Horned Owl, 2; Belted Kingfisher, 1; Red-shafted Flicker, 54; Lewis's Woodpecker, 2; Hairy Woodpecker, 2; Downy Woodpecker, 3; Horned Lark, 7; Steller's Jay, 3; Am. Magpie, 202; Am. Crow, 192; Black-capped Chickadee, 9; Mountain Chickadee, 4; Brown Creeper, 3; Dipper, 4; Townsend's Solitaire, 4; Starling, 243; English Sparrow, 554; Western Meadowlark, 20; Red-wing, 1548; Brewer's Blackbird, 1; Brown-headed Cowbird, 1 (Brewer's Blackbird and this species were both males and were observed in flock of male Red-wings at 20 ft. with 8X binoculars—R.G.B., R.E.B., R.J.T.); House Finch, 15; Pine Siskin, 15; White-winged Junco, 1; Slate-colored Junco, 6; Oregon Junco, 43 (Shufeldt's, 11; Pink-sided, 32); Gray-headed Junco, 2; Tree Sparrow, 48; White-crowned Sparrow (Gambel's), 4; Song Sparrow, 15. **Total,** 44 species (1 additional subspecies); about 5619 individuals. During count 1 Am. Merganser was found dead on top of ice. (Seen in area Dec. 27, Arkansas Goldfinch.)—Reba E. Beidleman, Richard G. Beidleman, J. Frank Cassel, Jack R. Grieb, John Olive, Ronald A. Ryder, Robert J. Tonn, Donald V. Zander, Verna M. Zander (Zoology Department and Cooperative Wildlife Research Unit, Colorado A&M College).

360. Greeley, Colo. (within a 7½-mile radius from center of city; Latham reservoir, wooded bottomland along South Platte and Cache la Poudre rivers, open farmland and roadsides, city parks and cemetery; open water 20%, wooded bottomland 40%, farmland and roadsides 38%, parks 2%).—Dec. 26; 7 a.m. to 5 p.m. Fair; temp. 10° to 45°; wind NW, gusts to 38 m.p.h., average 22 m.p.h.;

ground bare; ponds frozen, rivers open with floating ice, about 1 acre of open water at reservoir. Three observers in 2 parties. Total hours, 16; total miles, 95 (10 on foot, 85 in car). Mallard, 7782 (7000 est., 782); Pintail, 4; Green-winged Teal, 8; Blue-winged Teal, 9 (K.T.); Canvas-back, 1; Am. Merganser, 4; Cooper's Hawk, 3; Red-tailed Hawk, 10; Rough-legged Hawk, 5; Golden Eagle, 1; Bald Eagle, 1; Marsh Hawk, 4; Pigeon Hawk, 1; Sparrow Hawk, 2; Ring-necked Pheasant, 12; Killdeer, 3; Wilson's Snipe, 3; Ring-billed Gull, 8; Rock Dove, 15 (living under river bridges); Mourning Dove, 6 (seen by all observers); Horned Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 1; Red-shafted Flicker, 40; Lewis's Woodpecker, 2; Downy Woodpecker, 1; Horned Lark, 131; Am. Magpie, 218; Black-capped Chickadee, 24; Starling, 659; English Sparrow, 371; Western Meadowlark, 16; Red-wing, 2770 (est.); House Finch, 17; Am. Goldfinch, 1; Slate-colored Junco, 24; Oregon Junco, 43 (including Pink-sided, 39); Tree Sparrow, 13; White-crowned Sparrow, 9; Song Sparrow, 8; Snow Bunting, 17 (K.T.). **Total,** 41 species (1 additional subspecies); 12,249 individuals. (Due to unusually warm weather several species that would normally have gone south remained in this area.)—Mr. and Mrs. Kenneth Tegtman, Mrs. Carl N. Collister.

361. Lyons, Colo. (same area as last year, about 10 miles in diameter surrounding Lyons; altitude 5000 to 7500 ft.; plains, mostly farmland and including several small lakes and reservoirs and the St. Vrain Creek bottoms 60%, foothills, including Ponderosa pine forest, Douglas fir, and Colorado blue spruce, and the North and South St. Vrain Creek valleys 40%).—Dec. 28; 7 a.m. to 4:45 p.m. Clear; temp. 20° to 60°; no wind; reservoirs and ponds frozen; no snow on plains, traces in foothills. Three observers together. Total hours, 9 (6 by car, 3 by foot); total miles, 79 (73 by car, 6 by foot). Baldpate, 4; Rough-legged Hawk, 2; Ring-necked Pheasant, 10; Killdeer, 2; Rock Dove, 5 (apparently living in cliffs near No. St. Vrain); Belted Kingfisher, 1; Red-shafted Flicker, 12; Lewis's Woodpecker, 2; Downy Woodpecker, 1; Horned Lark, 7; Steller's Jay, 1; Am. Magpie, 38; Black-capped Chickadee, 17; Mountain Chickadee, 10; Pygmy Nuthatch, 4; Brown Creeper, 3; Dipper, 14; Rock Wren, 1 (small bird about size of a chickadee; gray with long bill and cinnamon sides; ran about rocks in very low foothills); (Golden-crowned?) Kinglet, 7 (seen twice; very small grayish birds; undoubtedly kinglets, probably Golden-crowned, as they have been seen in area before, and one observer thought he saw black stripes on one's crown; in company with chickadees once, creepers second time); Northern Shrike, 1; English Sparrow, 11; Western Meadowlark, 40; Red-wing, 85; House Finch, 5; Pine Siskin, 23; Goldfinch [sp.], 25; Slate-colored Junco, 11; Oregon Junco, 26 (including at least 4 Pink-sided); Gray-headed Junco, 4; unidentified junco, 44; Tree Sparrow, 13; Song Sparrow, 4. **Total,** 31 species (1 additional subspecies); 433 individuals.—Ronnie Bonnet, Jim Hays, Hugh Kingery.

362. Sterling, Colo. (within 4-mile radius, irrigated farmland north and river woodlands east of town; irrigated farmland 40%, cottonwood river bottom 60%).—Dec. 26; dawn to dusk. Partly cloudy in early a.m., cloudy in p.m.; temp. 15° to 38°; wind NW, 10-25 m.p.h. in early p.m.; very few patches of snow on ground; no ice on river. Two observers together. Total hours, 10; total miles, 18 (on foot). Mallard, 953 (900 est., 53); Pintail, 37; Green-winged Teal, 345 (310 est., 35); Am. Golden-eye, 5; Am. Merganser, 19; Red-tailed Hawk, 2; Red-shouldered Hawk, 6; Rough-legged Hawk, 5; Marsh Hawk, 5; Sparrow Hawk, 1; Ring-necked Pheasant, 81 (40 est., 41); Killdeer, 3; Wilson's Snipe, 2; Herring Gull, 2; Ring-billed Gull, 14; Rock Dove, 2 (under railroad bridge crossing river); Barn Owl, 1; Horned Owl, 1; Short-eared Owl, 1; Belted Kingfisher, 10; Red-shafted Flicker, 1; Hairy Woodpecker, 2; Downy Woodpecker, 1; Horned Lark, 250 (est.); Am. Magpie, 62; Am. Crow, 23; Black-capped Chickadee, 21; Northern Shrike, 1; Starling, 200 (est.); English Sparrow, 150 (est.); Western Meadowlark, 75 (45 est., 30); Red-wing, 304 (240 est., 64); House Finch, 7; Am. Goldfinch, 57; Lark Sparrow, 1 [no details—Ed.]; White-winged Junco, 8; Slate-colored Junco, 22; Oregon Junco, 65 (including Pink-sided, 52); Gray-headed Junco, 1 (at 40 ft. in sun with 7X50 binocular—R.E.L.); Tree Sparrow, 340 (est.); White-crowned Sparrow, 33; White-throated Sparrow, 1 (at 20 ft. in sun with 7X binocular—R.E.L.); Song Sparrow, 51 (40 est., 11). **Total,** 43 species (1 additional subspecies); about 3171 individuals.—R. Michael Halberg, Robert E. Lamb.

363. Bitter Lake National Wildlife Refuge, Roswell, N. Mex. (ponds, salt flats, farmland, uplands on headquarters unit; down Pecos River on west side to bridge on Highway No. 380, across Pecos River and up east side to refuge; ponds and dikes 42%, river and tamarisk thickets 50%, uplands 3%, irrigated farmland 5%).—Dec. 29; 7 a.m. to 5 p.m. Overcast; light rain in p.m.; temp. 22° at start, 24° at return; wind NW, 3 m.p.h. Total hours afield, 10 (6 on foot, 4 by car); total miles, 45 (10 on foot, 35 by car). Eared Grebe, 2; Pied-billed Grebe, 11; Great Blue Heron, 10; Black-crowned Night Heron, 6; Canada Goose, 18; Mallard, 10,000 (9000 est., 1000); Gadwall, 500 (300 est., 200); Baldpate, 85,000 (83,800 est., 1200); Pintail, 8000 (6600 est., 1400); Green-winged Teal, 60; Shoveller, 82; Ring-necked Duck, 150; Canvas-back, 190; Lesser Scaup Duck, 18; Buffle-head, 10; Ruddy Duck, 22; Am. Merganser, 20; Cooper's Hawk, 1; Red-tailed Hawk, 2; Ferruginous Rough-leg, 1; Marsh Hawk, 8; Sparrow Hawk, 3; Sandhill Crane, 800 (600 est., 200); Am. Coot, 101; Killdeer, 2; Wilson's Snipe, 1; Greater Yellow-legs, 3; Ring-billed Gull, 4; Mourning Dove, 7; Red-shafted Flicker, 16; Horned Lark, 60; Bewick's Wren, 3;

Long-billed Marsh Wren, 13; Robin, 2; Western Bluebird (Chestnut-backed), 1; Ruby-crowned Kinglet, 1; Am. Pipit, 2; Loggerhead Shrike, 5; Starling, 12; English Sparrow, 8; Western Meadowlark, 12; Red-wing, 1000 (est.); Brewer's Blackbird, 500; House Finch, 2; Savannah Sparrow, 12; Vesper Sparrow, 1; Oregon Junco, 43; Tree Sparrow, 1; White-crowned Sparrow (Gambel's), 252; Song Sparrow, 75. **Total,** 50 species; about 107,053 individuals.—Raymond J. Fleetwood.

[A count made by Ray H. Hunter, Manager of the Bitter Lakes National Wildlife Refuge, on Dec. 24, covering nearly an identical area as above, resulted in 53 species with 103,186 individuals. Birds found by Hunter, when weather conditions were more favorable, not found by Fleetwood included: Double-crested Cormorant, 4; Am. Bittern, 1; Blue-winged Teal, 30; Redhead, 400; Golden Eagle, 1; Scaled Quail, 33; Ring-necked Pheasant, 2; Roadrunner, 1; Horned Owl, 1; Belted Kingfisher, 2; Yellow-headed Blackbird, 4; Brown-headed Cowbird, 80; Harris's Sparrow, 4. Larger numbers of most waterfowl (except Baldpate) were seen on Dec. 24, and the count of Sandhill Cranes was 8335.]

364. Bosque del Apache National Wildlife Refuge, San Antonio, N. Mex. (that portion of refuge lying west of Rio Grande River from southern to northern boundary, including mountainous terrain around Porphyry Peak; up Highway No. 85 to San Antonio and point on levee 1 mile north of bridge on Highway No. 380 across Rio Grande; ponds and dikes 50%, irrigated farmland 25%, river bosque 5%, creosote bush, mesquite upland 15%, juniper, oak foothills 5%).—Dec. 27; 6 a.m. to 5:30 p.m. Clear; temp. 13° at start, 40° at return; wind S, 3 m.p.h.; ponds partially frozen. Total hours afield, 11½ (5 on foot, 6½ by car); total miles, 65 (5 on foot, 60 by car). Pied-billed Grebe, 26; Great Blue Heron, 30; Am. Egret, 14; Black-crowned Night Heron, 21; Am. Bittern, 1; Whistling Swan, 13; Canada Goose, 2500 (1975 est., 525); Snow Goose, 80; Blue Goose, 3; Mallard, 80,000 (78,000 est., 2000); Gadwall, 332; Baldpate, 4; Pintail, 18,000 (17,000 est., 1000); Green-winged Teal, 1580 (1380 est., 200); Shoveller, 343; Redhead, 2; Ring-necked Duck, 1; Canvas-back, 8; Lesser Scaup Duck, 3; Buffle-head, 3; Ruddy Duck, 3; Hooded Merganser, 2; Am. Merganser, 573; Cooper's Hawk, 3; Red-tailed Hawk, 12; Golden Eagle, 14; Bald Eagle, 2 (ad.); Marsh Hawk, 15; Sparrow Hawk, 5; Gambel's Quail, 52 (3 coveys); Ring-necked Pheasant, 1; Sandhill Crane, 66; Sora, 4 (heard); Am. Coot, 416; Killdeer, 4; Wilson's Snipe, 6; Greater Yellow-legs, 2; Least Sandpiper, 2; Ring-billed Gull, 3; Mourning Dove, 3; Roadrunner, 1; Belted Kingfisher, 1; Red-shafted Flicker, 18, Hairy Woodpecker, 1; Ladder-backed Woodpecker (Cactus), 3; Say's Phobe, 6; Horned Lark, 45; Am. Magpie, 3; Common Raven, 4; Bewick's Wren, 1; Long-billed Marsh Wren, 8; Rock Wren, 1; Brown Thrasher, 1 (observed with 8X30 glasses at distance of 35 ft., bright rufous-red back and tail, heavily striped breast and yellow eye noted; observed 3 times previous to count day); Crissal Thrasher, 3; Robin, 1; Western Bluebird (Chestnut-backed), 30; Ruby-crowned Kinglet, 4; Loggerhead Shrike, 7; Starling, 4; Myrtle Warbler, 3; English Sparrow, 35; Western Meadowlark, 20; Yellow-headed Blackbird, 1200 (1000 est., 200); Red-wing, 50,000 (48,500 est., 1500); Brewer's Blackbird, 12; Boat-tailed Grackle, 9; House Finch, 65; Spotted Towhee (Spurred), 2; Savannah Sparrow, 25; Sage Sparrow, 2; Oregon Junco, 47; White-crowned Sparrow (Gambel's), 417; Swamp Sparrow, 1 (observed in same place as last year; breast and rufous wing coverts noted); Song Sparrow, 102. **Total,** 74 species; about 156,233 individuals.—Raymond J. Fleetwood.

365. Santa Fe, N. Mex. (U.S. Indian School campus, stream bottoms along Alameda St., Canyon Rd. to water reservoir, Bishop's Lodge Road to Tesuque [6 miles] and return via Highway 85, thence to Hyde State Park [7.3 miles] and return; town suburbs 20%, stream bottoms 10%, juniper-piñon woods 60%, alpine pine forest 10%).—Dec. 31; 8:30 a.m. to 5 p.m. Scattered clouds; temp. 24° to 51°; calm; ground mostly bare but patches of snow 4 in. deep in shade on lower levels; snow cover at Hyde Park about 7 in.; streams open only on swifter slopes, reservoir frozen. Two observers together. Total hours, 8½ (5 on foot, 3½ by car); total miles, 36 (6 on foot, 30 by car). Cooper's Hawk, 2; Marsh Hawk, 1; Sparrow Hawk, 1; Scaled Quail, 57 (50 est., 7); Gambel's Quail, 103 (85 est., 18; 1 covey of Gambel's; 2 mixed coveys); Killdeer, 2; Mourning Dove, 4; Red-shafted Flicker, 18; Lewis's Woodpecker, 2; Williamson's Sapsucker, 1; Scrub Jay, 17; Common Raven, 43; Am. Crow, 1; Piñon Jay, 2; Black-capped Chickadee, 3; Plain Titmouse, 1 (many heard); Robin, 22; Mountain Bluebird, 46; Townsend's Solitaire, 2; Ruby-crowned Kinglet, 3; Loggerhead Shrike, 2; Starling, 4; House Finch, 34; Pine Siskin, 1; Am. Goldfinch, 3; Spotted Towhee, 1; Brown Towhee, 28; Oregon Junco, 124 (81 Pink-sided, 43 Shufeldt's); Gray-headed Junco, 1; White-crowned Sparrow, 24. **Total,** 29 species (1 additional subspecies); about 553 individuals. (Starling flocks of over 400 seen daily during count period except on 31st., also large flocks of Piñon Jays).—Henry C. Kyllingstad, David Kyllingstad.

366. Socorro, N. Mex. (vicinity of McAlister Lake and Pueblito, south along Rio Grande River levee to a point 2 miles south of Santa Fe depot at Socorro, along a farm road to Highway No. 85, then to airport, retracked to Socorro and went to Cuba, then followed Highway No. 60 to Six Mile Canyon and up canyon to first windmill; returned to Socorro via highway No. 60; cattail marsh 15%, river bosque 20%, mesquite, creosote bush uplands 15%, irrigated farmland 25%, juniper, oak foothills 25%).—Dec. 24; 6:30 a.m. to 5 p.m. Scattered clouds in a.m., clearing in p.m.; temp. 11° at start,

38° at return; wind S, 8 m.p.h.; ice on ponds and river. Total hours afield, 10½ (5 on foot, 5½ by car); total miles, 40 (8 on foot, 32 by car). Great Blue Heron, 7; Whistling Swan, 1; Canada Goose, 133; Mallard, 1250 (405 est., 845); Gadwall, 6; Baldpate, 1; Pintail, 77; Green-winged Teal, 45; Shoveller, 32; Canvas-back, 14; Red-tailed Hawk, 4; Marsh Hawk, 5; Sparrow Hawk, 16; Gambel's Quail, 56 (2 coveys); Ring-necked Pheasant, 1 (heard); Sandhill Crane, 70; Am. Coot, 2; Greater Yellow-legs, 2; Ring-billed Gull, 1; Mourning Dove, 11; Screech Owl, 1; Horned Owl, 3 (heard); Red-shafted Flicker, 28; Ladder-backed Woodpecker (Cactus), 5; Say's Phoebe, 3; Horned Lark, 280; Common Raven, 2; Mountain Chickadee, 2; Brown Creeper, 1; Long-billed Marsh Wren, 7; Rock Wren, 1; Robin, 2; Western Bluebird (Chestnut-backed), 3; Mountain Bluebird, 16; Townsend's Solitaire, 2; Ruby-crowned Kinglet, 2; Am. Pipit, 63; Loggerhead Shrike, 4; Starling, 112; English Sparrow, 410; Western Meadowlark, 94; Red-wing, 344; Brewer's Blackbird, 150; House Finch, 26; Am. Goldfinch, 12; Spotted Towhee (Spurred), 1; Brown Towee, 2; Savannah Sparrow, 1; Oregon Junco, 60 (including Pink-sided Junco, 6); White-crowned Sparrow (Gambel's), 138; Song Sparrow, 20. **Total,** 51 species (1 additional subspecies); about 3535 individuals.—Raymond J. Fleetwood.

367. Bear River Migratory Bird Refuge, Brigham, Utah (same area as 1939 and subsequent counts; refuge headquarters west along canal road, south and east over dikes to Perry, north following highway along foothills to Brigham, west through fields and over salt flats, touching points along Bear River, and back to refuge headquarters; marsh and ponds 50%, fields and farmlands 25%, open pasturelands and river banks 25%).—Dec. 28; 9:30 a.m. to 4:30 p.m. Clear; temp. 17° to 35°; water in ponds and river frozen except for few potholes; calm; ground covered with 5-6-in. snow, with drifts at points along dikes and fences 3-4 ft. deep. Three observers together. Total hours afield, 7; total miles, 41 (39 by car, 2 by foot). Pied-billed Grebe, 6; Great Blue Heron, 1; Black-crowned Night Heron, 2; Whistling Swan, 503; Canada Goose, 13; Mallard, 15; Gadwall, 2; Baldpate, 4; Pintail, 5; Shoveller, 1; Redhead, 2; Canvas-back, 4; Lesser Scaup Duck, 2; Am. Golden-eye, 5; Buffle-head, 2; Ruddy Duck, 7; Am. Merganser, 15; Red-breasted Merganser, 7; Rough-legged Hawk, 10; Bald Eagle, 4; Marsh Hawk, 16; Prairie Falcon, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 199; Am. Coot, 9; Wilson's Snipe, 3; Short-eared Owl, 6; Red-shafted Flicker, 2; Horned Lark, 55; Am. Magpie, 26; Common Raven, 5; Long-billed Marsh Wren, 4; Loggerhead Shrike, 2; Starling, 8; English Sparrow, 162; Western Meadowlark, 2; Red-wing, 69; Am. Goldfinch, 93; Oregon Junco, 4; Song Sparrow, 24. **Total,** 40 species; 1301 individuals.—Vanez T. Wilson, Leo T. Young, Allen G. Smith.

368. Ogden, Utah (Ogden Bay Refuge, Weber and Ogden rivers, Burch Creek hollow, Ogden Canyon, Ogden City parks, foothills, pastureland, hollows, swamps, and riverbottoms).—Dec. 26; 8 a.m. to 5 p.m. Overcast; temp. 26° at start, 30° on return; no wind; 17-in. snow on ground. Seven observers in 5 parties. Total party-hours afield, 44 (35 afoot, 9 by car); total party-miles, 184 (36 afoot, 148 by car). Pied-billed Grebe, 43; Canada Goose, 2; Mallard, 511; Pintail, 483; Green-winged Teal, 5; Shoveller, 68; Canvas-back, 2; Greater Scaup Duck, 50; Am. Golden-eye, 21; Ruddy Duck, 17; Am. Merganser, 18; Goshawk, 1; Sharp-shinned Hawk, 1; Bald Eagle, 5; Marsh Hawk, 22; Prairie Falcon, 2; Sparrow Hawk, 3; California Quail, 132; Ring-necked Pheasant, 258; Am. Coot, 301; Killdeer, 13; Wilson's Snipe, 27; Ring-billed Gull, 75; Short-eared Owl, 28; Belted Kingfisher, 2; Red-shafted Flicker, 23; Horned Lark, 2; Scrub Jay, 5; Magpie, 132; Common Raven, 23; Black-capped Chickadee, 50; Dipper, 5; Robin, 39; Am. Pipit, 7; Bohemian Waxwing, 441; Cedar Waxwing, 3; shrike (sp.), 1; Starling, 567; English Sparrow, 524; Western Meadowlark, 9; Red-wing, 26; House Finch, 2; Pine Siskin, 13; goldfinch [sp.], 3; Spotted Towhee, 2; Oregon Junco, 120; White-crowned Sparrow, 22; Song Sparrow, 42. **Total,** 49 species; about 4169 individuals.—Fern Bell, Robert Erwin, Paul Newey, Ray Newey, Robert Pendleton, Richard Porter, Roger Porter.

369. Salt Lake City, Utah (within a radius of 7½ miles of the City and County Building; canyons and bench lands 40%, water courses and open country 40%, city parks and suburban areas 20%).—Dec. 26; 7:30 a.m. to 5:30 p.m. Cloudy but with good visibility; temp. 29°; light S wind in valley; ground covered with 2-in. new snow over 4-in. old snow; all open water except streams frozen. Thirty-four observers in 13 parties. Total hours, 90½; total miles, 207 (86 on foot, 121 by car). Pied-billed Grebe, 6; Great Blue Heron, 7; Black-crowned Night Heron, 2; Canada Goose, 60; Mallard, 1821; Gadwall, 222; Baldpate, 102; Pintail, 9289; Green-winged Teal, 1461; Blue-winged Teal, 1; Cinnamon Teal, 2; Shoveller, 232; Redhead, 13; Canvas-back, 28; Lesser Scaup Duck, 4; Bufflehead, 7; Am. Merganser, 100; Red-breasted Merganser, 4; Goshawk, 1; Sharp-shinned Hawk, 14; Cooper's Hawk, 5; Red-tailed Hawk, 5; Rough-legged Hawk, 5; Ferruginous Hawk, 3; Golden Eagle, 8; Marsh Hawk, 23; Peregrine Falcon, 1; Pigeon Hawk, 1; Sparrow Hawk, 6; California Quail, 1027; Ring-necked Pheasant, 627; Am. Coot, 520; Killdeer, 53; Wilson's Snipe, 39; Spotted Sandpiper, 1 [no details—Ed.]; California Gull, 45; Ring-billed Gull, 351; Mourning Dove, 2; Long-eared Owl, 1; Short-eared Owl, 20; Saw-whet Owl, 1; Red-shafted Flicker, 124; Lewis's Woodpecker, 3; Hairy Woodpecker, 1; Downy Woodpecker, 14; Horned Lark, 382; Canada Jay, 3; Steller's Jay, 8; Scrub Jay, 63; Am. Magpie, 56; Common Raven, 27; Am. Crow, 42; Black-capped Chickadee, 129; Mountain Chickadee, 6; Brown Creeper, 3; Dipper, 6; Long-billed Marsh Wren, 11; Robin, 103; Town-

send's Solitaire, 2; Golden-crowned Kinglet, 16; Ruby-crowned Kinglet, 2; Am. Pipit, 10; Bohemian Waxwing, 2140; Cedar Waxwing, 476; Northern Shrike, 2; Starling, 4294; English Sparrow, 7654; Western Meadowlark, 81; Red-wing, 1495; Brewer's Blackbird, 4633; Evening Grosbeak, 95; Purple Finch, 25; House Finch, 208; Black Rosy Finch, 17; Common Redpoll, 6; Pine Siskin, 1570; Am. Goldfinch, 1153; Arkansas Goldfinch, 2; Green-tailed Towhee, 1; Spotted Towhee, 41; Slate-colored Junco, 6; Oregon Junco, 809; (Montana [?—Ed.], 736; Pink-sided, 73); Tree Sparrow, 10; Harris's Sparrow, 3; White-crowned Sparrow (Gambel's), 60; Song Sparrow, 190. **Total,** 86 species (1 additional subspecies); about 42,104 individuals.—Wm. A. Bader, M. R. Cheeseman, Mr. and Mrs. J. Donald Daynes and little daughter, Mr. and Mrs. Thomas A. Dewey, Thayer Evans, Reed and Robert Ferris, Harold Gibbs, Jerry Halgren, John Jones, James G. Lawrence, Wally Leatham, Mr. and Mrs. C. W. Lockerbie, Robert Selander, Boyd Shaffer, Garret and Jerry Steenblick, Rex B. Snow, J. M. Stevens, Mr. and Mrs. S. L. Tainter, Mr. and Mrs. Wm. Vandermeer, Ellis R. Dave, and Donna Wilson, Ronnie Young, Kenneth R. Tanner, Gordon Taylor, Bert Webb (Utah Audubon Society).

370. Havasu Lake National Wildlife Refuge, (Mohave Co.), Ariz. (Arizona portion of refuge above Topock, including refuge "neck," but not including area west of old dike opposite 5-Mile Landing; open cattail marsh 50%, open water 20%, desert brush 25%, miscellaneous 5%).—Dec 28; 7:30 a.m. to 6 p.m. Clear; temp. 35° to 68° to 55°; wind NNW, 1-12 m.p.h. Three observers in 3 parties. Total hours, 31½ (10 in outboard motorboats, 20 on foot, 1½ in car); total miles, 54 (26 in boats, 8 on foot, 20 in car). Eared Grebe, 1; Pied-billed Grebe, 3; White Pelican, 2; Double-crested Cormorant, 114; Great Blue Heron, 29; Am. Egret, 15; Snowy Egret, 2; Black-crowned Night Heron, 2; Canada Goose, 2352 (1685 est., 667); Snow Goose, 1000 (est.); Mallard, 65; Gadwall, 180; Pintail, 4; Green-winged Teal, 2223 (2050 est., 173); Baldpate, 3; Shoveller, 1; Redhead, 7; Ring-necked Duck, 1; Am. Golden-eye, 3; Buffle-head, 69; Ruddy Duck, 17; Hooded Merganser, 3; Am. Merganser, 45; Turkey Vulture, 7; Sharp-shinned Hawk, 2; Red-tailed Hawk, 4; Harris's Hawk, 18; Bald Eagle, 2; Marsh Hawk, 28; Pigeon Hawk, 1; Sparrow Hawk, 2; Gambel's Quail, 38; Sora, 1; Am. Coot, 566; Killdeer, 5; Wilson's Snipe, 1; Spotted Sandpiper, 2; Greater Yellow-legs, 3; Least Sandpiper, 2; Horned Owl, 5; Belted Kingfisher, 5; Red-shafted Flicker, 9; Gila Woodpecker, 8; Ladder-backed Woodpecker, 12; Black Phoebe, 5; Say's Phoebe, 1; Vermilion Flycatcher, 6; Tree Swallow, 101; Common Raven, 6; Verdin, 10; House Wren, 2; Bewick's Wren, 5; Cactus Wren, 1; Long-billed Marsh Wren, 16; Mockingbird, 1; Crissal Thrasher, 10; Robin, 4; Western Bluebird, 5; Plumbeous Gnatcatcher, 32; Ruby-crowned Kinglet, 19; Am. Pipit, 75; Phainopepla, 4; Loggerhead Shrike, 8; Orange-crowned Warbler, 6; Audubon's Warbler, 80; Yellow-throat, 3; English Sparrow, 1; Western Meadowlark, 5; Red-wing, 68; Brewer's Blackbird, 29; House Finch, 14; Abert's Towhee, 23; Sage Sparrow, 7; White-crowned Sparrow, 41; Song Sparrow, 20. **Total,** 75 species; about 7470 individuals. (Noted in area Dec. 27: Avocet, 1.)—Gale Monson, Allan R. Phillips, Warren Pulich.

371. Imperial National Wildlife Refuge, Yuma (Yuma Co.), Ariz. (vicinity of Imperial Dam north to Martinez Lake and south to a point 3 miles south of Laguna Dam; open cattail marsh and reservoir 50%, flooded brushland types 30%, arrow-weed brush [*Pluchea sericea*] 10%, desert 5%, cultivated fields 5%).—Dec. 31; 8 a.m. to 6 p.m. Clear at start, becoming partly cloudy at noon; temp. 50° to 65°; no wind. Two observers in 2 parties. Total hours, 15; total miles, 40 (20 by car, 18 by boat, 2 on foot). Eared Grebe, 2; Pied-billed Grebe, 5; White Pelican, 28; Double-crested Cormorant, 18; Great Blue Heron, 15; Am. Egret, 6; Snowy Egret, 10; Black-crowned Night Heron, 6; Whistling Swan, 6; Canada Goose, 1321 (1200 est., 121); Snow Goose, 70; Mallard, 48; Gadwall, 36; Baldpate, 151; Pintail, 127; Green-winged Teal, 92; Shoveller, 15; Redhead, 1; Ring-necked Duck, 17; Canvas-back, 11; Lesser Scaup Duck, 15; Buffle-head, 12; Ruddy Duck, 6; Am. Merganser, 47; duck (sp.), 71; Turkey Vulture, 3; Red-tailed Hawk, 1; Harris's Hawk, 5; Marsh Hawk, 4; Peregrine Falcon, 1; Gambel's Quail, 2; Am. Coot, 1545; Killdeer, 4; Least Sandpiper, 3; Ring-billed Gull, 700; Mourning Dove, 60; Road-runner, 3; Belted Kingfisher, 1; Red-shafted Flicker, 1; Gila Woodpecker, 3; Black Phoebe, 4; Say's Phoebe, 2; Tree Swallow, 10; Verdin, 1; Long-billed Marsh Wren, 1; Mockingbird, 3; Blue-gray Gnatcatcher, 1; Phainopepla, 2; Ruby-crowned Kinglet, 2; Loggerhead Shrike, 4; Audubon's Warbler, 10; English Sparrow, 2; Western Meadowlark, 4; Red-wing, 500 (est.); House Finch, 8; Abert's Towhee, 1; Chipping Sparrow, 1; White-crowned Sparrow, 2; Song Sparrow, 1. **Total,** 58 species; about 5031 individuals.—A. F. Halloran, J. H. Gretzinger.

372. Santa Catalina Mts., Ariz. (usual area; pine-fir forest 24%, chaparral 5%, oak woods 9%, foothill canyons 11%, desert foothills 12%, ranches and ponds 29%, cottonwood-willow-mesquite 10%).—Dec. 26; 3:15 a.m. to 5:45 p.m. Clear; temp. at foot of mts. 26° to 61° to 52°, at Summerhaven 20° to about 46° to 30°; generally calm; forests snow-covered, av. 16 in. on north slopes at summit but with small bare spots on south-facing slopes; patches of snow down to oak woods. Twenty-seven observers in 11-12 parties. Total hours, 77; total miles, 372 (60 afoot, 312 by car). Pied-billed Grebe, 2; Green Heron, 1; Mallard, 5; Green-winged Teal, 1; Shoveller, 1; Sharp-shinned Hawk, 2; Cooper's Hawk, 2; Red-tailed Hawk, 6; Golden Eagle, 1; Marsh Hawk, 3; Prairie Falcon, 1; Sparrow Hawk, 9; Gambel's Quail, 155; Sora, 6+; Am. Coot, 29; Killdeer, 17; Wilson's Snipe, 1; Mourning Dove, 175; Inca Dove, 31; Road-runner, 5; small owl

Mrs. S. L. Tainter and Dr. Nathaniel Whitney near mouth of Parley's Canyon, Salt Lake City Count. ***Photograph by C. W. Lockerbie.***

(doubtless Screech Owl), 1; Horned Owl, 3; White-throated Swift, 12; Anna's Hummingbird, 3 (J.M.G., E.W.G.); Belted Kingfisher, 2; Yellow-shafted Flicker, 2 (A.H.A., A.A.—1st winter record for State); Red-shafted Flicker, 27; Gilded Flicker, 19; Gila Woodpecker, 109; Yellow-bellied Sapsucker, 4; Williamson's Sapsucker, 1; Hairy Woodpecker, 16; Ladder-backed Woodpecker, 25; Arizona Woodpecker, 2; Black Phoebe, 8; Say's Phoebe, 11; *Empidonax* (Hammond's or Wright's), 1 (A.R.P.); Vermilion Flycatcher, 6; Steller's Jay, 13; Scrub Jay, 1; Arizona Jay, 66; Common Raven, 10; Mountain Chickadee, 17; Bridled Titmouse, 12; Verdin, 45; Bush-tit, 88; White-breasted Nuthatch, 16; Red-breasted Nuthatch, 6; Pygmy Nuthatch, 122; Brown Creeper, 20; House Wren, 5; Bewick's Wren, 11; Cactus Wren, 68; Long-billed Marsh Wren, 6+; Cañon Wren, 14; Rock Wren, 24; Mockingbird, 22; Curve-billed Thrasher, 73; Crissal Thrasher, 3; Robin, 7; Western Bluebird, 155; Mountain Bluebird, 5; Blue-gray Gnatcatcher, 2; Plumbeous Gnatcatcher, 5 (plus 13 unidentified gnatcatchers); Golden-crowned Kinglet, 7+; Ruby-crowned Kinglet, 87; Am. Pipit, 79; Cedar Waxwing, 1; Phainopepla, 49; Loggerhead Shrike, 5; Hutton's Vireo, 3; Orange-crowned Warbler, 1; Audubon's Warbler, 30; Yellow-throat, 1; English Sparrow, 124; Western Meadowlark, 98 (plus 87 unidentified meadowlarks); Yellow-headed Blackbird, 5; Red-wing, 232; Brewer's Blackbird, 322; Brown-headed Cowbird, 52; Cardinal, 37; Pyrrhuloxia, 24; Cassin's Finch, 1; House Finch, 381; Pine Siskin, 5+; Am. Goldfinch, 2; Arkansas Goldfinch, 19; Red Crossbill, 2; Green-tailed Towhee, 4; Spotted Towhee, 5; Brown Towhee, 58; Abert's Towhee, 8; Lark Bunting, 155; Savannah Sparrow, 2; Vesper Sparrow, 40; Lark Sparrow, 62; Rufous-crowned Sparrow, 13; Desert Sparrow, 23; Slate-colored Junco, 4 (*hyemalis*, 3; Cassiar, 1—all by L.L.H.); Oregon Junco, 102 (Shufeldt's and Montana type, 91; Pink-sided, 11); Gray-headed Junco, 21; Arizona Junco, 58; Chipping Sparrow, 251; Brewer's Sparrow, 29; Black-chinned Sparrow, 6+; White-crowned Sparrow, 130 (White-crowned, 1; Gambel's, 129); Fox Sparrow, 1; Lincoln's Sparrow, 23; Song Sparrow (Mountain type), 27. **Total,** 109 species (3 additional subspecies); 4210+ individuals. Scarcity of Blue Herons and ducks due to continuous shooting. Deciduous trees (cottonwoods, willows, mesquite, etc.) still in leaf at foot of mountains. Beardless Flycatcher wintering in area again, but only doubtfully identified on count date. (Also noted recently: Great Blue Heron, 1 [Dec. 21]; White-winged Dove, 1 [others reported]; Ground Dove, 1; Acorn Woodpecker, 8; Horned Lark, 12; Rufous-winged Sparrow, 1 [Jan. 10].)—Mr. and Mrs. A. H. Anderson, M. J. Barger, J. Brain, Mr. and Mrs. W. X. Foerster, Mr. and Mrs. J. M. Gates, L. L. Hargrave, R. J. Hock, R. Hutton, R. Jenks, E. D. McKee, J. T. Marshall, Jr., Mr. and Mrs. E. T. Nichols, Mr. and Mrs. G. Olin, I. Peters, A. R. Phillips, W. Proctor, Miss V. Ramsdell, R. H. Reed, R. B. Streets, Mr. and Mrs. R. J. Thornburg, Mrs. N. Zurn (Bird Club of Tucson Natural History Society, Tucson Audubon Society).

373. Tucson, Ariz. (usual area in Santa Cruz valley and Tucson Mts.; homes and yards 13%,

riparian cottonwoods and mesquite mesa 15%, irrigated farmland 35%, ponds 16%, desert washes 8%, saguaro hills 13%).—Dec. 31; 7 a.m. to 6:30 p.m. Mostly fair in a.m., partly cloudy later; temp. 42° (34° at river) to 75° to 57°; wind mostly NW, 0-2 m.p.h. Twelve observers (11 in 5-7 parties, plus casual observations in town by 1 other). Total hours, 40; total miles, 225 (26 afoot, 199 by car). *Anas* (sp.), 2 (probably Green-winged Teal); Lesser Scaup Duck, 6; Old-squaw, 1 (carefully studied by I.P., K.S., R.J.T., F.T.—1st local record); Black Vulture, 77; Sharp-shinned Hawk, 3+; Red-tailed Hawk, 4+; Marsh Hawk, 5; Prairie Falcon, 1; Sparrow Hawk, 34; Gambel's Quail, 109; Sora, 1; Killdeer, 83+; Wilson's Snipe, 21; Mourning Dove, 292; Ground Dove, 9; Inca Dove, 39+; Roadrunner, 5; Screech Owl (*asio*), 1; Horned Owl, 1; Anna's Hummingbird, 1; Belted Kingfisher, 1; Yellow-shafted Flicker, 1 (A.R.P.); Red-shafted Flicker, 19+; Gilded Flicker, 28; Gila Woodpecker, 66; Williamson's Sapsucker, 1 (R.J.H.); Ladder-backed Woodpecker, 13+; Black Phoebe, 16; Say's Phoebe, 22; Vermilion Flycatcher, 12; Horned Lark, 265 (190 est., 75); Common Raven, 5; Bridled Titmouse, 2; Verdin, 13; House Wren, 8; Bewick's Wren, 5; Cactus Wren, 28; Long-billed Marsh Wren, 5; Cañon Wren, 2; Rock Wren, 8; Mockingbird, 6; Bendire's Thrasher, 8; Curve-billed Thrasher, 32; Crissal Thrasher, 31; Sage Thrasher, 1; Robin, 2+; Hermit Thrush, 1; Western Bluebird, 10; Mountain Bluebird, 1; Blue-gray Gnatcatcher, 10+; Ruby-crowned Kinglet, 20; Am. Pipit, 311 (300 est., 11); Phainopepla, 2; Loggerhead Shrike, 24; Hutton's Vireo, 2; Gray Vireo, 1 (collected—1st U.S. winter record); Orange-crowned Warbler, 4; Audubon's Warbler, 76; Yellow-throat, 1; English Sparrow, 670+; Western Meadowlark, 141 (plus 166 unidentified meadowlarks); Yellow-headed Blackbird, 1001 (1000 est., 1); Red-wing, 931; Brewer's Blackbird, 315; Brown-headed Cowbird, 151; Cardinal, 26+; Pyrrhuloxia, 33; House Finch, 511; Green-tailed Towhee, 15; Brown Towhee, 16; Abert's Towhee, 36; Lark Bunting, 65; Savannah Sparrow, 6+; Vesper Sparrow, 32; Lark Sparrow, 192; Rufous-winged Sparrow, 1; Desert Sparrow, 24; Chipping Sparrow, 138; Brewer's Sparrow, 8; Black-chinned Sparrow, 2; White-crowned Sparrow, 212+ (White-crowned, 1; Gambel's, 211+); Lincoln's Sparrow, 31; Song Sparrow (Mountain type), 21+. **Total,** 83 species (1 additional subspecies); about 6502 individuals. River bone-dry; cottonwoods still in leaf in town, nearly bare at river. A Bonaparte's Gull found Jan. 2 was evidently shot on day of count. (Also noted recently: Cooper's Hawk, 2 [Jan. 8]; Pigeon Hawk, 2; Least Sandpiper, 2; Starling, 1 [R.J.H.—1st local record]; Solitary Vireo [Cassin's], 1 [Jan. 8].)—Mr. and Mrs. W. X. Foerster, Mr. and Mrs. J. M. Gates, R. J. Hock, J. T. Marshall, Jr., Mrs. L. C. Marvin, I. Peters, A. R. Phillips, K. Smith, Mr. and Mrs. R. J. Thornburg (Bird Club of Tucson Natural History Society, Tucson Audubon Society).

374. Ruby Lake National Wildlife Refuge, Ruby Valley (Elko Co.), Nev. (refuge headquarters north and east over dike and return, south to and along refuge boundary; marsh 25%, meadow 50%, sage-brush and willow clumps 25%).—Jan. 2; 8 a.m. to 3 p.m. Cloudy; temp. 30°; wind 15-25 m.p.h.; blowing snow; 6-in. snow on ground; open water below spring holes. Total hours, 7; total miles, 24 (23½ by car, ½ on foot). Great Blue Heron, 2; Whistling Swan, 25; Trumpeter Swan, 17 (9 est., 8); Canada Goose, 7; Mallard, 500; Gadwall, 15; Baldpate, 10; Pintail, 500; Green-winged Teal, 8; Redhead, 20; Canvas-back, 18; Am. Golden-eye, 1; Rough-legged Hawk, 6; Ferruginous Hawk, 1; Golden Eagle, 1; Sage Hen, 23; European Partridge, 11; Am. Coot, 25; Horned Lark, 9; Am. Magpie, 9; Common Raven, 3; junco [sp.], 8. **Total,** 22 species; about 1219 individuals.—Baine H. Cater (Refuge Manager).

375. Olympia, Wash. (Nisqually flats, Deschutes basin, Budd and Eld inlets, and city parks).—Dec. 26; 7:30 a.m. to 4:30 p.m. Light rain or drizzle; temp. 30° at start, 35° on return; wind SW, light to moderate. Four observers together. Total hours, 9; total miles, 36 (7 by foot, 29 by car). Arctic Loon, 4; Holboell's Grebe, 9; Horned Grebe, 37; Eared Grebe, 53 (50 est., 3); Western Grebe, 8; Pied-billed Grebe, 1; Pelagic Cormorant, 15; Great Blue Heron, 3; Mallard, 12; Green-winged Teal, 2; Ring-necked Duck, 5; Canvas-back, 39; Greater Scaup Duck, 2000 (est.); Am. Golden-eye, 74; Buffle-head, 5; White-winged Scoter, 150; Surf Scoter, 24; Red-breasted Merganser, 200 (est.); Ruffed Grouse, 2; Am. Coot, 5; Red-backed Sandpiper, 2500 (est.); Glaucous-winged Gull, 600 (est.); Western Gull, 4; Herring Gull, 158; California Gull, 9; Short-billed Gull, 100 (est.); Bonaparte's Gull, 3; Pigeon Guillemot, 1; Belted Kingfisher, 4; Red-shafted Flicker, 7; Steller's Jay, 14; Am. Crow, 14; Black-capped Chickadee, 5; Chestnut-backed Chickadee, 23; Bush-tit, 2; Robin, 87; Western Bluebird, 2; Brewer's Blackbird, 2; Purple Finch, 8; Am. Goldfinch, 5; Oregon Junco, 42; Song Sparrow, 5. **Total,** 42 species; 6240 individuals. (Recorded in same area, during Christmas week: Baldpate, Killdeer, Horned Owl, Cedar Waxwing, English Sparrow.)—Frank P., Christopher and Stephen Mathews, Robert Cushman Murphy, Jr.

376. Spokane, Wash. (city parks and cemeteries, Spokane River, Little Spokane River, Whitworth College campus, Spokane Valley east to Dishman).—Dec. 28; 8:30 a.m. to 3:30 p.m. Mostly cloudy with frequent wind and snowstorms, temp. 30° to 32°; 8-in. snow on ground. Twenty-three observers in 11 parties. Total miles, 192 (173 by car, 19 on foot). Great Blue Heron, 2; Mallard, 780; Baldpate, 6; Lesser Scaup Duck, 3; Am. Golden-eye, 21; Am. Merganser, 4; Goshawk, 1; Sharp-shinned Hawk, 3; Cooper's Hawk, 1; Red-tailed Hawk, 1; Sparrow Hawk, 1; Ruffed Grouse, 3; European Partridge, 34; California Quail, 360; Ring-necked Pheasant, 176; Killdeer, 1; Ring-billed Gull, 4; Horned Owl, 1; Belted Kingfisher,

4; Red-shafted Flicker, 58; Hairy Woodpecker, 5; Downy Woodpecker, 7; Horned Lark, 20; Steller's Jay, 12; Am. Magpie, 8; Clark's Nutcracker, 37; Black-capped Chickadee, 49; Mountain Chickadee, 1; Red-breasted Nuthatch, 39; Pygmy Nuthatch, 158; Dipper, 1; Robin, 23; Townsend's Solitaire, 1; Golden-crowned Kinglet, 111; Bohemian Waxwing, 4; Northern Shrike, 1; English Sparrow, 166; Western Meadowlark, 4; Red-wing, 8; House Finch, 16; Oregon Junco, 148; Song Sparrow, 38. **Total,** 42 species; 2321 individuals.—Mr. and Mrs. Wm. B. Wright, Cora Roberts, Theodore Turner, Mr. and Mrs. Chas. Morrow, Agnes Gander, Mrs. A. H. Hobbs, Alma Walker, Mr. and Mrs. Albert I. Buchecker, Mattie Burke, Belle Bothwell, Mrs. A. J. Castle, Jimmy Acton, Earl Pettibone, Harry Thompson, Mr. and Mrs. M. C. Hagen, Mrs. Archie Clough, Mr. and Mrs. Steve Stanley, Ann Merager (The Spokane Bird Club).

377. Willapa National Wildlife Refuge, Ilwaco (Pacific Co.), Wash. (refuge headquarters around east, south, and west refuge boundary; tidal marsh 20%, bay shore line 50%, edges of alder-spruce-hemlock woods 30%).—Jan. 2; 8 a.m. to 5 p.m. Clear at start, becoming cloudy at 11 a.m.; temp. 20° to 36°; wind E to NE, 5-15 m.p.h.; snow averaging 2-3 in. deep. Total hours, 9; total miles, 35 (32 by car, 3 on foot). Arctic Loon, 1; Western Grebe, 6; Pied-billed Grebe, 2; Brandt's Cormorant, 2; Great Blue Heron, 10; Canada Goose, 433; Brant, 8; Mallard, 8; Baldpate, 52; Pintail, 222; Green-winged Teal, 43; Canvas-back, 14; Scaup Duck [sp.], 104; Am. Golden-eye, 11; Buffle-head, 20; White-winged Scoter, 6; Surf Scoter, 2; Ruddy Duck, 34; Am. Merganser, 25; Bald Eagle, 3; Sparrow Hawk, 2; Blue Grouse, 2; Killdeer, 8; Least Sandpiper, 200; Red-backed Sandpiper, 3000 (est.); Sanderling, 4000 (est.); Glaucous-winged Gull, 94; Western Gull, 28; Horned Owl, 1; Belted Kingfisher, 3; Red-shafted Flicker, 6; Hairy Woodpecker, 2; Downy Woodpecker, 1; Common Raven, 1; Am. Crow, 127; Bewick's Wren, 2; Varied Thrush, 53; Ruby-crowned Kinglet, 16; Red-wing, 15; Brewer's Blackbird, 52; Common Redpoll, 31; Spotted Towhee, 3; Oregon Junco, 48; Fox Sparrow, 5; Song Sparrow, 24. **Total,** 45 species; about 8730 individuals.—Earl M. Brooks.

378. Eugene (Lane Co.), Oreg. (same area as in 1948 and previous counts; town vicinity, to and around Fern Ridge Reservoir, university campus and residential area 15%, orchards and fields 20%, pastureland 25%, Douglas fir forest 10%, deciduous woods 10%, river 5%, mud flats 10%, open lake 5%).—Dec. 26; 8:30 a.m. to 4:30 p.m. Cloudy; .02 in. precipitation; temp. 35° to 47°; wind S, 9-15 m.p.h. Nineteen observers, 6 in home areas and feeding stations, and 13 in 5 parties in field. Total hours, 68 (54 on foot, 14 in car); total miles, 90 (38 on foot, 52 by car). Pied-billed Grebe, 3; Great Blue Heron, 19; Canada Goose, 1196 (including Great Basin, White-cheeked, Lesser, and Cackling; seen in mixed flocks on water and in flight); Snow

Tucson Christmas Counters in the Santa Catalina Mountains, Arizona.

Goose, 2; Mallard, 492; Baldpate, 100; Pintail, 117; Green-winged Teal, 5; Shoveller, 21; Wood Duck, 201; Ring-necked Duck, 38; Canvas-back, 26; Lesser Scaup Duck, 25; Ruddy Duck, 4; Am. Merganser, 2; unidentified ducks, 2700; Sharp-shinned Hawk, 1; Red-tailed Hawk, 8; Swainson's Hawk, 1 (seen closeup—H.V.J.) [details of identification not given—Ed.]; Marsh Hawk, 7; Pigeon Hawk (Black), 1; Sparrow Hawk, 25; Ruffed Grouse, 2; Bob-white, 15; California Quail, 1; Ring-necked Pheasant, 29; Am. Coot, 5; Kildeer, 37; Least Sandpiper, 560; Red-backed Sandpiper, 19; Glaucous-winged Gull, 1 (R.E.H.); California Gull, 3; Bonaparte's Gull, 2; Mourning Dove, 35; Burrowing Owl, 1 (always in same location); Short-eared Owl, 2; Belted Kingfisher, 10; Red-shafted Flicker, 73; Acorn Woodpecker, 24; Lewis's Woodpecker, 10; Hairy Woodpecker, 3; Downy Woodpecker, 6; Steller's Jay, 21; Scrub Jay, 12; Am. Crow, 88; Black-capped Chickadee, 136; Chestnut-backed Chickadee, 3; Bush-tit, 56; White-breasted Nuthatch, 5; Winter Wren, 5; Long-billed Marsh Wren, 1; Robin, 713; Varied Thrush, 2; Western Bluebird, 46; Golden-crowned Kinglet, 93; Ruby-crowned Kinglet, 1; Northern Shrike, 1; Starling, 43; Hutton's Vireo, 1; Audubon's Warbler, 42; English Sparrow, 171; Western Meadowlark, 137; Red-wing, 224; Brewer's Blackbird, 910; Purple Finch, 3; House Finch, 39; Pine Siskin, 7; Am. Goldfinch, 110; Red Crossbill, 19; Spotted Towhee, 49; Savannah Sparrow, 39; Oregon Junco, 970; White-crowned Sparrow, 10; Golden-crowned Sparrow, 86; Fox Sparrow, 7; Lincoln's Sparrow, 8; Song Sparrow, 82. **Total,** 76 species (3 additional subspecies); about 9952 individuals. (Seen in area Dec. 25—Jan. 1, but not included in count: Wilson's Snipe, 10; Am. Pipit, 4; Cedar Waxwing, 58; Arkansas Goldfinch [Green-backed], 5.)—Vivian Carr, Mrs. John Radmore, Mrs. C. E. Croson, Cora Saunders, Mrs. F. L. Travis, Ada Shuey, Ruth Richardson, Geo. Saunders, Catherine Dunlop, Ruth E. Hopson, Karl Krugur, Lawrence T. Burgh, Mrs. Robert Meisenholder, H. V. Johnson, Jim Newsom, Bob Bayly, Violet Meisenholder, Hal Pruitt, Ben H. Pruitt (Eugene Natural Hist. Soc.).

379. Klamath Falls, Oreg. (north to Geary Ranch, east to Lost River, south to Spring Lake, west to Keno; open fields 8%, marshland 8%, pine woodland 8%, juniper-bordered farmland 29%, lake and river 45%, residential 2%).—Dec. 26; 9 a.m. to 3 p.m. Clear and sunny; temp. 20° to 38°; wind S to SE, calm to 7 m.p.h.; ground covered with 1-7-in. snow; lakes frozen except small part of Upper Klamath at Link River; rivers open. Twelve observers in 4 groups. Total hours, 19; total miles, 87 (81½ by car, 5½ by foot). Eared Grebe, 3; Western Grebe, 4; Pied-billed Grebe, 90; Great Blue Heron, 3; Am. Egret, 4; Black-crowned Night Heron, 89; Whistling Swan, 21; Canada Goose, 20; Snow Goose, 300; unidentified geese, 2; Mallard, 166; Gadwall, 11; Baldpate, 179; Pintail, 133; Green-winged Teal, 13; Shoveller, 5; Redhead, 3; Canvas-back, 2; Lesser Scaup Duck, 117; Am. Golden-eye, 228; Buffle-head, 102; Ruddy Duck, 662; Am. Merganser, 12; unidentified ducks, 1771; Sharp-shinned Hawk, 1; Cooper's Hawk, 1; Red-tailed Hawk, 55; Swainson's Hawk, 1 [no details—Ed.]; Rough-legged Hawk, 8; Bald Eagle, 1; Marsh Hawk, 57; Prairie Falcon, 1; Pigeon Hawk, 1; Sparrow Hawk, 14; unidentified hawks, 42; California Quail, 480; Mountain Quail, 9; Ring-necked Pheasant, 255; Am. Coot, 884; Killdeer, 2; California Gull, 1; Ring-billed Gull, 15; Mourning Dove, 1; Barn Owl, 4; Short-eared Owl, 1; Belted Kingfisher, 4; Red-shafted Flicker, 22; Horned Lark, 37; Canada Jay, 2; Steller's Jay, 5; Scrub Jay, 5; Am. Magpie, 27; Mountain Chickadee, 25; Brown Creeper, 1; Rock Wren, 2; Robin, 681; Western Bluebird, 5; Mountain Bluebird, 41; Townsend's Solitaire, 20; Northern Shrike, 1; English Sparrow, 329; Western Meadowlark, 35; Yellow-headed Blackbird, 2; Red-wing, 170; Brewer's Blackbird, 4980; Purple Finch, 6; House Finch, 85; Arkansas Goldfinch, 3; Oregon Junco, 292; White-crowned Sparrow, 10; Fox Sparrow, 1; Song Sparrow, 22. **Total,** 69 species; 12,587 individuals.—Mr. and Mrs. Timothy Moore, Lawrence A. French, Robert French, Naomi R. French, James L. O'Donahue, Earl Redmond, Corrine Redmond, Miriam Smyth, Myrtle Harris, William Harris, Kenneth McLeod, Jr. (Nature Society of the Klamath Region).

380. Malheur National Wildlife Refuge, Burns (Harney Co.), Oreg. (from Grain Camp south, including Krumbo, Boca Lake, P-Ranch, Blitzen River, and Frenchglen areas; meadows, creek bottoms, lake shores, sage-brush flats, sloughs, and spring branches; ponds and canals 15%, marsh 10%, willow thickets 40%, and brushland 35%).—Jan. 2; 9:30 a.m. to 5 p.m. Clear in a.m., clouding up at noon with snow-squalls in p.m.; temp. 6° to 20°; wind W, 3-15 m.p.h.; light, new snow; ½ in. deep; water open below dams and springs. Two observers together in car, but separating on foot. Total hours, 8; total miles, 57 (54 by car, 3 afoot). Pied-billed Grebe, 1; Great Blue Heron, 6; Whistling Swan, 4; Mallard, 129; Gadwall, 11; Baldpate, 4; Pintail, 6; Green-winged Teal, 8; Lesser Scaup Duck, 1; Am. Golden-eye, 32; Barrow's Golden-eye, 1; Buffle-head, 1; Am. Merganser, 4; Red-tailed Hawk, 11; Rough-legged Hawk, 31; Ferruginous Hawk, 2; Golden Eagle, 2; Marsh Hawk, 34; Prairie Falcon, 3; Peregrine Falcon, 1; California Quail, 59; Ring-necked Pheasant, 156; Am. Coot, 2; Horned Owl, 2; Long-eared, Owl, 1; Short-eared Owl, 6; Red-shafted Flicker 7; Am. Magpie, 71; Common Raven, 9; Am. Crow, 1; Winter Wren, 1; Long-billed Marsh Wren, 1; Robin, 186; Townsend's Solitaire, 1; Northern Shrike, 2; English Sparrow, 9; Red-wing, 6; Brewer's Blackbird, 60; Spotted Towhee, 1; junco [sp.], 8; Chipping Sparrow, 18 [no details—Ed.]; Song Sparrow, 24. **Total,** 42 species; 923 individuals.—John C. Scharff, Ray C. Erickson.

381. Portland, Oreg. (15-mile diameter centered downtown, same as in 1938 and subsequent counts;

Portland observers counting Ring-billed Gulls on the Willamette River. ***Photograph by W. H. Crowell,*** **who has directed these Counts for a decade.**

brushy lowlands 7%, lakes and rivers 20%, woodlands 22%, farmlands 12%, residential areas 39%). —Jan 1 [starting and stopping time not stated—Ed.]. Snowing, partly clear in p.m.; temp. 29° to 34°; wind SE, 5-10 m.p.h. Sixty-two observers in 16 parties. Total hours, 102 (87 on foot, 15 by car); total miles, 211 (101 on foot, 110 by car). Pied-billed Grebe, 8; Double-crested Cormorant, 32; Great Blue Heron, 27; Green Heron, 2 [no details—Ed.]; Canada Goose, 16; Mallard, 2066; Gadwall, 42; European Widgeon, 1; Baldpate, 5237; Pintail, 694; Green-winged Teal, 652; Shoveller, 60; Wood Duck, 2; Ring-necked Duck, 25; Canvas-back, 57; Lesser Scaup Duck, 59; Buffle-head, 27; Surf Scoter, 1; Ruddy Duck, 4; Hooded Merganser, 2; Am. Merganser, 27; unidentified ducks, 2; Sharp-shinned Hawk, 5; Cooper's Hawk, 7; Red-tailed Hawk, 10; Sparrow Hawk, 7; Blue Grouse, 1; Ruffed Grouse, 1; California Quail, 15; Ring-necked Pheasant, 52; Am. Coot, 281; Killdeer, 94; Wilson's Snipe, 6; Western Sandpiper, 3; Glaucous-winged Gull, 4933; Herring Gull, 1307; California Gull, 142; Ring-billed Gull, 250; Short-billed Gull, 910; unidentified gulls, 597; Band-tailed Pigeon, 5 [no details—Ed.]; Barn Owl, 2; Screech Owl, 4; Short-eared Owl, 10; Belted Kingfisher, 4; Red-shafted Flicker, 117; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 3; Downy Woodpecker, 37; Steller's Jay, 5; Scrub Jay, 1; Common Raven, 2; Am. Crow, 773; Black-capped Chickadee, 428; Chestnut-backed Chickadee, 40; Bush-tit, 191; White-breasted Nuthatch, 11; Red-breasted Nuthatch, 3; Brown Creeper, 4; Winter Wren, 5; Bewick's Wren, 15; Long-billed Marsh Wren, 1; Robin, 2098; Varied Thrush, 80; Hermit Thrush, 1; Western Bluebird, 7; Golden-crowned Kinglet, 152; Ruby-crowned Kinglet, 4; Am. Pipit, 10; Cedar Waxwing, 84; Starling, 43; Hutton's Vireo, 1; Audubon's Warbler, 77; English Sparrow, 339; Western Meadowlark, 92; Red-wing, 28; Brewer's Blackbird, 628; Evening Grosbeak, 13; Purple Finch, 118; House Finch, 401; Pine Siskin, 282; Am. Goldfinch, 803; Arkansas Goldfinch, 20; crossbill [sp.], 14; Spotted Towhee, 95; Savannah Sparrow, 2; Slate-colored Junco, 1 [no details—Ed.]; Oregon Junco, 1211; White-crowned Sparrow, 3; Golden-crowned Sparrow, 7; Fox Sparrow, 28; Song Sparrow, 657. **Total,** 90 species; about 26,626 individuals.—Mr. and Mrs. David B. Marshall, Albert W. Marshall, Earl A. Marshall, Nancy Marshall, Norbert Leupold, Norbert Leupold, Jr., Louis Oberson, Nicholas Dodge, Mr. and Mrs. C. L. Marshall, Mr. and Mrs. Tom McAllister, Mr. and Mrs. Herbert Judd, Ben F. Layman, Clyde Leon Keller, Barbara Keller, Waldo Ek, Mr. and Mrs. Frank Blakeslee, O. E. Wheeler, Mrs. W. B. Holden, Mr. and Mrs. Frank A. Bartlett, A. J. Bennett, B. K. McNab, Dale Widner, Mr. and Mrs. Leo F. Simon, Henry Steinbrugge, J. R. Williams, Alva Oakes, E. A. Kelham, Berton Bailey, N. G. Seaman, Arlie Seaman, Ruth Merrill, Kenneth Leatherman, Susie Nicholson, Joyce Wildes, Louise Coleman, Mr. and Mrs. J. W. C. Williams, Esther Maegly, Mrs. Rankin, Mrs. A. L. Mills, Mrs. Theo. W. Adams, Mrs. Harold J. Todhunter, Mrs. H. L. Deal, Nancy Goldsmith, Thornton T. Munger, Duncan Munger, Osgood Munger, David L. Bockius, Jr., Mr. and Mrs. W. H. Crowell, P. E. Lewis, Mr. and Mrs. Leslie W. Bartow, Mrs. R. A. Wagner, Robert Millett (Oregon Audubon Society).

382. Tillamook, Oreg. (from Tillamook along southern shore of Tillamook Bay to Bayocean; south to Netarts Bay; bay shore 60%, ocean beach 15%, salal-covered hillsides sprinkled with pine 15%, grassy lowlands 5%, rivers and streams 5%). —Dec. 26; 7:30 a.m. to 1 p.m., 2 to 5 p.m. Overcast with intermittent showers and fog; temp. 49° to 46°; wind SW, 25-38 m.p.h.; lowlands somewhat flooded. Six observers together. Total hours, 8½ (5½ by foot, 3 by car); total miles, 38 (6 by foot, 32 by car). Common Loon, 3; Arctic Loon, 10; Red-throated Loon, 1; unidentified loons, 15; Holboell's Grebe, 1; Horned Grebe, 14; Western Grebe, 9 (2 dead); Pied-billed Grebe, 1; Sooty Shearwater, 1500 (±500); Brown Pelican, 1; Double-crested Cormorant, 14; Brandt's Cormorant, 2; Pelagic Cormorant, 4; unidentified cormorants, 20; Great Blue Heron, 6; Brant, 100; Mallard, 3; Baldpate, 1; Canvas-back, 43; Am. Golden-eye, 43; Buffle-head, 3; White-winged Scoter, 1; Surf Scoter, 8; Am. Scoter, 6; Ruddy Duck, 3; Red-breasted Merganser, 14; unidentified ducks, 300; Bald Eagle, 1; Sandhill Crane, 6; Black Oyster-catcher, 2; Killdeer, 2; Glaucous-winged Gull, 57; Western Gull, 106; Herring Gull, 3; California Gull, 15; Short-billed Gull, 13; Bonaparte's Gull, 2; California Murre, 1 (2 others dead); Red-shafted Flicker, 2; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 1; Common Raven, 4; Am. Crow, 1; Chestnut-backed Chickadee, 18; Wren-tit, 10; Winter Wren, 2; Bewick's Wren, 1; Long-billed Marsh Wren, 1; Robin, 1; Varied Thrush, 3; Hermit Thrush, 1; Golden-crowned Kinglet, 35; Ruby-crowned Kinglet, 1; Red-wing, 1; Brewer's Blackbird, 300; Red Crossbill, 15; Spotted Towhee, 1; Oregon Junco, 25; Fox Sparrow, 4; Song Sparrow, 24. **Total,** 58 species; about 2787 individuals. (Also found were 4 dead Fulmars; seen in area, Dec. 27: Am. Merganser, 2; Greater Scaup Duck, 1; Black Turnstone, 1; Peregrine Falcon, 1.)—Robert Millett, Dale Widner, Mr. and Mrs. S. W. C. Williams, Arthur Bennett, Brian McNab (Oregon Audubon Society).

383. Bakersfield (Kern Co.), Calif. (including Hart Memorial Park, 6 miles northeast of Bakersfield on Kern River, native and exotic trees and lawns maintained by irrigation, weeds and willows bordering river, farmland and cultivated fields in the vicinity of Lake Buena Vista, now dry, and oak-grass foothills northeast of Bakersfield to an altitude of 2500 ft.).—Dec. 30; 7:30 a.m. to 5 p.m. Clear, hazy and calm; temp. 34° to 56°. Total hours, 9; total miles, 171 (160 by car, 11 on foot). Six observers in 3 parties. Pied-billed Grebe, 1; Great Blue Heron, 1; Green Heron, 1; Am. Egret, 1; Black-crowned Night Heron, 100; Mallard, 17; Cinnamon Teal, 2; Ring-necked Duck, 3; Turkey Vulture, 2; Sharp-shinned Hawk, 4; Red-tailed Hawk, 6; Golden Eagle, 1; Marsh Hawk, 6; Sparrow Hawk, 28; California Quail, 32; Ring-necked Pheasant, 2; Florida Gallinule, 2; Am. Coot, 50; Killdeer, 35; Spotted Sandpiper, 4; Wilson's Snipe, 1; Wilson's (?) Phalarope, 6 (Baldwins); Ring-billed Gull, 23; Mourning Dove, 7; Chinese Spotted Dove (in Bakersfield), 11; Roadrunner, 1; Barn Owl, 2; Belted Kingfisher, 1; Red-shafted Flicker, 53; Acorn Woodpecker, 26; Yellow-bellied Sapsucker, 6 (Red-breasted, 4; Red-naped, 2); Nuttal's Woodpecker, 3; Black Phoebe, 9; Say's Phoebe, 10; Horned Lark, 15; Violet-green Swallow, 3; Tree Swallow, 2; Scrub Jay (in foothills), 5; Common Raven, 13; Bush-tit, 1; White-breasted Nuthatch, 1; House Wren, 1; Bewick's Wren, 2; Cañon Wren, 1; Mockingbird, 11; Robin, 9; Hermit Thrush, 1; Western Bluebird, 23; Mountain Bluebird, 8; Ruby-crowned Kinglet, 10; Am. Pipit, 46; Cedar Waxwing, 25; Phainopepla, 2; Loggerhead Shrike, 37; Audubon's Warbler, 217; Western Meadowlark, 44; Red-wing, 1000±; Brewer's Blackbird, 5030±; English Sparrow, 161; House Finch, 267; Am. Goldfinch, 75; Arkansas Goldfinch, 6; Spotted Towhee, 5; Brown Towhee (in foothills), 10; Savannah Sparrow, 1; Lark Sparrow, 178; Oregon Junco, 46; Golden-crowned Sparrow, 2; White-crowned Sparrow (Gambel's), 502; Fox Sparrow, 3; Song Sparrow, 2. **Total,** 72 species; about 8222 individuals.—H. Elliott McClure, Paul Baldwin, Wayne Baldwin, R. Baldwin, Ed. Welz, R. Reuther.

384. Big Bear Lake, Calif. (parts of a 15-mile circle centering near Bertha Peak in San Bernardino Mountains about 3 miles north-northeast of Big Bear Lake P.O. and extending throughout Bear Valley and to Box H Springs on desert slope and to bottom of upper Santa Ana Canyon near Seven Oaks on Pacific slope; altitudinal range 3500-7200 ft.; nearly the same area as since 1941; coniferous forest 37%, mountain lakes and open shore 12%, mountain meadow 7% ,piñon-juniper association 7½%, sage-brush 1½%, creosote bush and association 10%, desert willow and cottonwood 7%, alders, oaks, and canyon streams 8%, chaparral 10%).—Dec. 31; 6 a.m. to 8 p.m. Clear; 1½ ft. of snow above 6000 ft.; at this level 10° at night to 40° in daytime; wind 10 m.p.h.; lakes frozen except in a few small places. Twelve observers in 3 parties. Total hours, 93; total miles, 101 (81 by car, 20 on foot). Great Blue Heron, 4; unidentified duck, 1; Red-tailed Hawk, 1; Golden Eagle, 2; Bald Eagle, 4; Osprey, 2 (2nd record for this species on our Christmas counts); Prairie Falcon, 2; Sparrow Hawk, 1; Virginia Rail, 1; Am. Coot, 300; Wilson's Snipe, 4; California Gull, 10; Screech Owl, 1; Red-shafted Flicker, 4; Acorn Woodpecker, 5; Williamson's Sapsucker, 2; Hairy Woodpecker, 3; Downy Woodpecker, 2; Ladder-backed Woodpecker, 3; Nuttal's Woodpecker, 1; Western Kingbird, 1; Steller's Jay, 9; Scrub Jay, 5; Common Raven, 1; Am. Crow, 75; Mountain Chickadee, 43; Plain Titmouse, 3; White-breasted Nuthatch, 8; Red-breasted Nuthatch, 1; Pygmy Nuthatch, 21; Brown Creeper, 4; Wren-tit, 3; Cactus Wren, 4; Robin, 6; Western Bluebird, 12; Townsend's Solitaire, 2; Ruby-crowned Kinglet, 5; Audubon's Warbler, 2; English Sparrow, 13; Brewer's Blackbird, 2; Cassin's Finch, 13; Pine Siskin, 14; Am. Goldfinch, 3; Oregon Junco, 15; White-crowned Sparrow, 32; Golden-

crowned Sparrow, 3; Song Sparrow, 7. **Total,** 46 species; 659 individuals.—Arlen Bell, Mr. and Mrs. J. H. Comby, John V. Frederick, Pat Gould, Bill Hawkins, Ralph Mall, Mr. and Mrs. Glenn McCune, Mrs. E. C. Miller, Arnold Small, Robert L. Taylor.

385. Los Angeles, Calif. (same area as in previous 12 years; short stretch of ocean beach 7%, salt-water marsh, lagoons, canals, gun-club marsh 13%, open rolling hills 13%, oak, sycamore, and holly-covered canyons 21%, brush-covered foothill slopes 24%, river-bed area 1%, city reservoirs and park lakes 12%, city parks and library grounds 3%, golf courses, cemeteries, campuses 4%, city and suburban streets and yards 2%).—Dec. 26; 6 a.m. to 5:30 p.m. Clear; temp. 40° to 67°; wind nearly 0 in a.m. to SW, 8-12 m.p.h. in p.m.; new green growth of grass due to early rains, some wild shrubs in early bloom on sunny slopes. Forty observers in 22 parties. Total hours, 134 (108 on foot, 26 by car); total miles, 231 (85 on foot, 146 by car). Common Loon, 11; Arctic Loon, 14; Red-throated Loon, 4; Horned Grebe, 2; Eared Grebe, 14; Western Grebe, 721; Pied-billed Grebe, 34; Brown Pelican, 301; Double-crested Cormorant, 148; Brandt's Cormorant, 1; Great Blue Heron, 7; Am. Egret, 16; Snowy Egret, 25; Green Heron, 3; Black-crowned Night Heron, 10; Am. Bittern, 1; Brant, 3; Baldpate, 59; Pintail, 1362; Green-winged Teal, 11; Shoveller, 10; Ring-necked Duck, 8; Canvas-back, 43; Lesser Scaup Duck, 397; Buffle-head, 6; White-winged Scoter, 6; Surf Scoter, 641; Ruddy Duck, 184; Am. Merganser, 17; Red-breasted Merganser, 29; Turkey Vulture, 11; Sharp-shinned Hawk, 13; Cooper's Hawk, 3; Red-tailed Hawk, 22; Marsh Hawk, 3; Peregrine Falcon, 1; Pigeon Hawk, 1; Sparrow Hawk, 82; California Quail, 75; Clapper Rail (Light-footed), 2; Am. Coot, 679; Snowy Plover, 3; Semipalmated Plover, 1; Killdeer, 355; Black-bellied Plover, 95; Surf-bird, 2; Ruddy Turnstone, 6; Black Turnstone, 4; Wilson's Snipe, 1; Long-billed Curlew, 3; Hudsonian Curlew, 13; Spotted Sandpiper, 7; Willet, 627; Greater Yellow-legs, 2; Least Sandpiper, 161; Red-backed Sandpiper, 22; Dowitcher (Long-billed), 78; Western Sandpiper, 50; Marbled Godwit, 166; Sanderling, 232; Avocet, 26; Black-necked Stilt, 1 (wintering); Glaucous-winged Gull, 117; Western Gull, 682; Herring Gull, 15; California Gull, 2516; Ring-billed Gull, 922; Short-billed Gull, 1; Bonaparte's Gull, 375; Heermann's Gull, 98; Forster's Tern, 10; Band-tailed Pigeon, 16; Mourning Dove, 184; Chinese Spotted Dove, 94; Ringed Turtle Dove, 61; Screech Owl, 1; Horned Owl, 2; Burrowing Owl, 3; Poor-will, 1 (seen and heard on steep hillside; noted markings at close range—Russells); White-throated Swift, 22; Anna's Hummingbird, 138; Belted Kingfisher, 9; Red-shafted Flicker, 68; Acorn Woodpecker, 16; Yellow-bellied Sapsucker, 3 (Red-naped, 1; Red-breasted, 2); Downy Woodpecker, 2; Nuttall's Woodpecker, 3; Ash-throated Flycatcher, 10 (more wintering in this area each year); Black Phoebe, 133; Say's Phoebe, 16; Horned Lark, 120; Steller's Jay, 2 (on high foothill slope—Brode, *et al.*); Scrub Jay, 199; Am. Crow, 1; Plain Titmouse, 31; Bush-tit, 265; Brown Creeper, 1; Wren-tit, 342; House Wren, 6; Bewick's Wren, 16; Long-billed Marsh Wren, 2; Cañon Wren, 1; Mocking-bird, 177; California Thrasher, 84; Robin, 42; Hermit Thrush, 14; Western Bluebird, 54; Blue-gray Gnatcatcher, 11; Ruby-crowned Kinglet, 21; Am. Pipit, 79; Cedar Waxwing, 289; Loggerhead Shrike, 42; Hutton's Vireo, 2; Orange-crowned Warbler, 6; Audubon's Warbler, 1115; Townsend's Warbler, 1; Yellow-throat, 7; Black-capped Warbler, 1; English Sparrow, 339; Western Meadowlark, 393; Red-wing, 64; Hooded Oriole, 1 (♂, wintering in beach foothill area; observed for ½ hour—Warrick, *et al.*); Brewer's Blackbird, 1638; Brown-headed Cowbird, 7; Black-headed Grosbeak, 1 (wintering—E.M., W.D.Q.); Purple Finch, 55; Cassin's Finch, 6; House Finch, 2340; Pine Siskin, 78 (75 observed in alder trees; unusually large number—E.M., W.D.Q.); Am. Goldfinch, 59; Arkansas Goldfinch, 185; Spotted Towhee, 64; Brown Towhee, 341; Savannah Sparrow, 57 (including Belding's, 14, and Large-billed, 2); Lark Sparrow, 40; Rufous-crowned Sparrow, 3; Oregon Junco, 56; Chipping Sparrow, 176; White-crowned Sparrow, 624; Golden-crowned Sparrow, 42; Fox Sparrow, 30; Lincoln's Sparrow, 1; Song Sparrow, 122. **Total,** 144 species (2 additional subspecies); about 22,006 individuals.—(Birds in general were the scarcest experienced observers have ever seen at this time of year in this same 13-year-old count area . . . many of our observers working their same area for 13th consecutive year. Most of the usual species could be found by closer hunting but fewer individuals. Seen in count area, Dec. 25: Road-runner, 1; on day of count, Dec. 26: Yellow-billed Magpie, 1—J.R.)—Wyatt A. and Christine M. Kent, Mr. and Mrs. George T. Hastings, Stanley Brode, May Warrick, Clara Splitter, John Cunningham, Mrs. Theodore Jahn, Alma Stultz, May Wait, Caroline H. Daugherty, Pat Gould, Bill Hawkins, Arnold Small, Robert Taylor, Ralph Mall, Howard L. Cogswell, M. S. Dunlap, Enid Michael, W. D. Quattlebaum, Roy E. Johnson, Philip Banks, Bess M. Hoffman, Alice Lewis, Justin and Earl R. Russell, Arthur, Constance, and Dale Berry, Clara S. Weedmark, Don Bleitz, Dorothy Groner, Gertrude Woods, Mr. and Mrs. R. W. Julian, Mary B. Salmon, C. R. Thomas, E. P. Terry, John H. Wentz (Southwest Bird Study Club, Santa Monica Nature Club, Pasadena Audubon Society, Los Angeles Audubon Society).

386. Malibu (Los Angeles Co.), Calif. (Malibu Lake, ocean beach from Malibu to Point Dume and including residential area surrounding Point Dume, several small canyons leading inland from ocean front, Tapia Park, Lake Sherwood, Lake Eleanor, Malibu Lake and areas immediately off roads to these areas; 40% of time spent at ocean front, 20% at fresh-water lakes, 20% in oak groves, 10% in riparian woodland, 10% in brushy and cultivated fields).—Dec. 30; 6:30 a.m. to 5 p.m. Water in lakes very low. Four observers in 2 parties. Total miles, 62 (51 by car, 11 on foot); total

hours, 14. Common Loon, 4; Arctic Loon, 3; Red-throated Loon, 2; Eared Grebe, 3; Western Grebe, 31; Pied-billed Grebe, 26; Brown Pelican, 41; Double-crested Cormorant, 36; Brandt's Cormorant, 1; Am. Egret, 2; Snowy Egret, 1; Green Heron, 1; Mallard, 20; Gadwall, 8; Baldpate, 23; Pintail, 149; Green-winged Teal, 60; Shoveller, 5; Canvas-back, 265; Lesser Scaup Duck, 8; Ruddy Duck, 1117; Am. Golden-eye, 1 (♀ observed on Lake Eleanor; seen very well and carefully checked for distinguishing field marks—C.H.D., B.M.H.); Red-breasted Merganser, 5; Surf Scoter, 39; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Marsh Hawk, 2; Sparrow Hawk, 26; California Quail, 5; Am. Coot, 518; Snowy Plover, 1; Killdeer, 35; Black-bellied Plover, 32; Wilson's Snipe, 1; Hudsonian Curlew, 3; Willet, 24; Spotted Sandpiper, 1; Least Sandpiper, 9; Western Sandpiper, 7; Marbled Godwit, 11; Sanderling, 36; Glaucous-winged Gull, 6; Western Gull, 4; California Gull, 10; Ring-billed Gull, 51; Heermann's Gull, 13; Rock Dove, 6 (living on cliffs above Malibu beach); Mourning Dove, 152; Anna's Hummingbird, 3; Belted Kingfisher, 3; Red-shafted Flicker, 6; Acorn Woodpecker, 2; Downy Woodpecker, 3; Nuttall's Woodpecker, 1; Black Phoebe, 21; Say's Phoebe, 9; Horned Lark, 39; Scrub Jay, 4; Common Raven, 7; Am. Crow, 44; Plain Titmouse, 3; White-breasted Nuthatch, 1; Wren-tit, 3; Bush-tit, 17; Bewick's Wren, 1; Long-billed Marsh Wren, 1; Mockingbird, 2; California Thrasher, 1; Western Bluebird, 14; Am. Pipit, 13; Loggerhead Shrike, 3; Audubon's Warbler, 24; Yellow-throat, 3; Western Meadowlark, 145; Red-wing, 111; Brewer's Blackbird, 146; Purple Finch, 9; House Finch, 304; Am. Goldfinch, 75; Arkansas Goldfinch, 5; Spotted Towhee, 11; Brown Towhee, 55; Lark Sparrow, 200; Oregon Junco, 32; Savannah Sparrow, 18; Chipping Sparrow, 5; White-crowned Sparrow, 199; Golden-crowned Sparrow, 3; Song Sparrow, 23. **Total,** 89 species; 4378 individuals.—Caroline H. Daugherty, Sigsby Dunlap, Bess M. Hoffman, Ralph Mall.

387. Monterey Peninsula, Calif. (Laguna del Rey, Hotel Del Monte grounds and golf course, El Estero, Aguajito district, Monterey Catholic cemetery, Monterey harbor, Pacific Grove water front to Asilomar Beach, Carmel River-mouth lagoon, Pebble Beach, parts of Carmel and pine canyon at northern city limits, river-bottom deciduous woods along Carmel River near Highway No. 1 bridge, area in vicinity of intersection of this highway and Carmel Valley road, areas along latter road at points 3.3 and 7 miles east of intersection, ½ mile up Robison Canyon, Point Lobos and pine forested hillside southeast of Lobos; ocean and exposed bays 9%, beaches 3%, river-mouth lagoon 4%, ponds and tule swamps 12%, rocky shore 11%, open fields 13%, brushland 13%; Monterey pine wood land 8%, live oak woodland 4%, golf courses 6%, gardens, village streets, etc., 15%, redwoods 1%, deciduous woodland 1%).—Dec. 27; 7 a.m. to 7 p.m. Clear; temp. 64° to 37°; wind variable, 0-10 m.p.h. Four observers in 3 parties. Total hours, 27½ (21¾ on foot, 5¾ by car); total miles, 31¾ (8¾ on foot, 23 by car). Common Loon, 1; Arctic Loon, 1; Red-throated Loon, 6; Holboell's Grebe, 3; Horned Grebe, 16; Eared Grebe, 26; Western Grebe, 74; Pied-billed Grebe, 10; Fulmar, 1; Brown Pelican, 101; Double-crested Cormorant, 9; Brandt's Cormorant, 98; Pelagic Cormorant, 57; Great Blue Heron, 1; Black-crowned Night Heron, 3; Canada Goose, 12; Emperor Goose, 2 (L.W., noted in region by F.M. and L.W. since Dec. 13; all field marks noted as in 1945 count; see also *Condor* 48:139); Mallard, 192; Baldpate, 20; Pintail, 61; Cinnamon Teal, 1; Shoveller, 138; Redhead, 4; Canvas-back, 46; Lesser Scaup Duck, 10; Am. Golden-eye, 6; Buffle-head, 3; White-winged Scoter, 1; Surf Scoter, 65; Ruddy Duck, 214; Red-breasted Merganser, 27; White-tailed Kite, 1; Sharp-shinned Hawk, 1; Cooper's Hawk, 2; Red-tailed Hawk, 5; Red-shouldered Hawk, 1; Marsh Hawk, 2; Peregrine Falcon, 2; Sparrow Hawk, 18; California Quail, 306; Virginia Rail, 2; Sora, 2; Am. Coot, 668; Black Oyster-catcher, 4; Snowy Plover, 6; Killdeer, 106; Surf-bird, 1; Black Turnstone, 29; Wilson's Snipe, 2; Least Sandpiper, 3; Sanderling, 216; Glaucous-winged Gull, 180; Western Gull, 228; Herring Gull, 116; California Gull, 40; Ring-billed Gull, 21; Short-billed Gull, 421; Heermann's Gull, 71; Ancient Murrelet, 5; Rhinoceros Auket, 1; Band-tailed Pigeon, 21; Horned Owl, 2; Saw-whet Owl, 1; Anna's Hummingbird, 4; Belted Kingfisher, 1; Red-shafted Flicker, 30; Acorn Woodpecker, 52; Hairy Woodpecker, 5; Downy Woodpecker, 6; Black Phoebe, 12; Say's Phoebe, 2; Tree Swallow, 2; Scrub Jay, 32; Yellow-billed Magpie, 2; Am. Crow, 6; Chestnut-backed Chickadee, 28; Plain Titmouse, 1; Bush-tit, 35; Pygmy Nuthatch, 40; Brown Creeper , 2; Wren-tit, 5; House Wren, 1; Winter Wren, 3; Bewick's Wren, 3; Long-billed Marsh Wren, 1; Robin, 27; Hermit Thrush, 1; Western Bluebird, 12; Blue-gray Gnatcatcher, 1; Ruby-crowned Kinglet, 18; Am. Pipit, 42; Cedar Waxwing, 73; Loggerhead Shrike, 1; Hutton's Vireo, 12; Audubon's Warbler, 55; Townsend's Warbler, 9; Yellow-throat, 1; English Sparrow, 16; Western Meadowlark, 194; Red-wing, 313; Tri-colored Blackbird, 621; Brewer's Blackbird, 570; Purple Finch, 1; House Finch, 474; Pine Siskin, 3; Am. Goldfinch, 3; Spotted Towhee, 5; Brown Towhee, 5; Savannah Sparrow, 25; Oregon Junco, 78; White-crowned Sparrow, 149; Golden-crowned Sparrow, 301; Fox Sparrow, 5; Lincoln's Sparrow, 1; Song Sparrow, 12. **Total,** 115 species; 6994 individuals.—Dr. and Mrs. W. A. Angwin, Florence Morrow, Laidlaw Williams (Monterey Peninsula Audubon Society).

388. Morro Bay, Calif. (parts of a 15-mile diameter circle extending from Morro Bay on southwest and edge of San Luis Obispo on southeast across Santa Lucia Range to Santa Margarita on northeast and nearly to Atascadero on north; localities covered in actual count included only campus of California Polytechnic College, north-

western end of San Luis Valley, Los Osos Valley, and adjacent hill slopes, Morro Bay and shore from Baywood Park on southeast around east side to Morro Rock, beach just north of Morro Rock, Cerro Alto Public Camp, Atascadero Lake, and Atascadero, Tassajara and Santa Margarita creeks within the circle limits; rocky shore 11%, sandy shore 5%, bay 14½%, salicornia marsh and mud flats 6%, dune shrubland 5½%, short grassland 13½%, residental areas and cultivated farmland 8%, live oak-sagebrush woodland 3½%, willow riparian 3½%, sycamore-live oak riparian 3½%, live oak-laurel woodland 3%, deciduous oak-Digger pine woodland 19%, lake 4%).—Dec. 28; 5:20 a.m. to 5:10 p.m. Clear to thin cirrus overcast; temp. 26° at start, about 70° at mid-day; wind N, 10-15 m.p.h. before dawn, W, 4-5 m.p.h. in p.m.; ground in valleys and canyons moist from recent rains, new growth of grasses evident on all hill slopes; tide low during most of time spent at bay. Two observers together. Total hours, 9¼; total miles, 67 (5 afoot, 62 by car). Common Loon, 4; Arctic Loon, 3; Red-throated Loon, 2; loon (sp.), 3; Horned Grebe, 15; Eared Grebe, 17; Western Grebe, 120 (±5); Pied-billed Grebe, 35 (±3); White Pelican, 190 (±5); Brown Pelican, 34; Double-crested Cormorant, 29; Brandt's Cormorant, 23+; Pelagic Cormorant, 2; Great Blue Heron, 85; Am. Egret, 9; Snowy Egret, 9; Brant, 425 (±15); Mallard, 1; Pintail, 1350 (±100); Green-winged Teal, 1000 (±50); Shoveller, 6; Baldpate, 400 (±10); Ring-necked Duck, 6; Canvas-back, 9; Lesser Scaup Duck, 7; Am. Golden-eye, 1; Buffle-head, 80 (±5); Old-squaw, 1 (♂); White-winged Scoter, 19; Surf Scoter, 43; scoter (sp.), 75 (±5); Ruddy Duck, 150 (±10); Am. Merganser, 5; Red-breasted Merganser, 29; Turkey Vulture, 12; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Marsh Hawk, 3; Prairie Falcon, 1; Sparrow Hawk, 5; California Quail, 14; Am. Coot, 12,000 (±1000); Semipalmated Plover, 3; Killdeer, 270 (±15); Black-bellied Plover, 15; Surf-bird, 3; Black Turnstone, 2; Long-billed Curlew, 7; Willet, 450 (±30); Greater Yellow-legs, 3; Least Sandpiper, 120 (±10); Red-backed Sandpiper, 150 (±10); Dowitcher, 16; Western Sandpiper, 4+; Marbled Godwit, 2000 (±100); Sanderling, 30; Avocet, 18; Glaucous-winged Gull, 75 (±5); Western Gull, 85 (±5); Herring Gull, 18; California Gull, 100 (±10); Ring-billed Gull, 110 (±10); Short-billed Gull, 5; Bonaparte's Gull, 30; Heermann's Gull, 8; Forster's Tern, 17; Mourning Dove, 2; Barn Owl, 1; Horned Owl, 9 (in 4 miles of oak-pine woodland, before dawn); Anna's Hummingbird, 3; Red-shafted Flicker, 8; Acorn Woodpecker, 9; Hairy Woodpecker, 1; Black Phoebe, 5; Say's Phoebe, 9; Horned Lark, 52+; Scrub Jay, 15; Am. Crow, 19; Bush-tit, 5+; Wren-tit, 18; Bewick's Wren, 7; Cañon Wren, 2 (on Morro Rock); Mockingbird, 2; California Thrasher, 2; Hermit Thrush, 4; Western Bluebird, 17; Mountain Bluebird, 4; Blue-gray Gnatcatcher, 2; Ruby-crowned Kinglet, 2; Am. Pipit, 65 (±5); Loggerhead Shrike, 7; Myrtle Warbler, 7; Audubon's Warbler, 53; Yellow-throat, 1; English Sparrow, 14; Western Meadowlark, 140 (±10); Red-wing, 1400 (±200); Brewer's Blackbird, 160 (±10); blackbird (sp.), 1100 (±150); Brown-headed Cowbird, 5+; Purple Finch, 2; House Finch, 97; Am. Goldfinch, 14; Arkansas Goldfinch, 1; Spotted Towhee, 5; Brown Towhee, 13; Savannah Sparrow, 66; Sage Sparrow, 1; Oregon Junco, 10; White-crowned Sparrow, 150 (±10); Golden-crowned Sparrow, 6+; crowned sparrow (sp.), 20 (±3); Fox Sparrow (both gray- and brown-headed types), 2; Song Sparrow, 10. **Total,** 110 species; about 23,310 individuals. Several thousand additional shorebirds, gulls, and waterfowl too far out on bay for identification.—Howard L. and Bessie Cogswell.

389. Norco, Calif. (7½-mile radius centered approximately at junction of Arlington and Holden Avenues near town of Norco; area more extensive than that included in count of 1948 and includes Fairmont Park Lake in Riverside, cultivated fields and farmyards between Riverside and Norco, Lake Norconian, barren sage-covered hills between Second and Third Sts., Santa Ana River bottom east and west from Hamner Ave. and north and south from River Road, and Lake Mathews; fresh-water marsh 7%, arid sage-covered hills 15%, cultivated fields 10%, riparian riverbottom 18%, fresh-water lakes 40%, grassy and brushy fields 10%).—Dec. 28; 7 a.m. to 6 p.m. High cirrus clouds; temp. 32° to 79°; wind SW, 5-8 m.p.h. Two observers together. Total hours, 11 (8 on foot, 3 in car); total miles, 47 (8 on foot, 39 by car). Western Grebe, 6; Pied-billed Grebe, 66; Double-crested Cormorant, 17; White Pelican, 3; Great Blue Heron, 4; Am. Egret, 8; Snowy Egret, 5; Green Heron, 1; Black-crowned Night Heron, 3; Canada Goose, 1141 (600 est., 541, including 2 Lesser); Mallard, 266; Gadwall, 8; Baldpate, 1853 (1800 est., 53); Pintail, 47; Green-winged Teal, 472 (450 est., 22); Cinnamon Teal, 1 (♂); Shoveller, 1137 (1100 est., 37); Redhead, 3; Ring-necked Duck, 4; Canvas-back, 311 (300 est., 11); Buffle-head, 4; Ruddy Duck, 168; Hooded Merganser, 1 (♂); Am. Merganser, 268 (250 est., 18); Sharp-shinned Hawk, 4; Cooper's Hawk, 1; Red-tailed Hawk, 3; Red-shouldered Hawk, 2; Marsh Hawk, 2; Peregrine Falcon, 1; Sparrow Hawk, 13; California Quail, 1; Florida Gallinule, 1; Am. Coot, 582 (500 est., 82); Killdeer, 141 (flock of 100 est., 41); Ring-billed Gull, 46; California Gull, 9; Mourning Dove, 1; Chinese Spotted Dove, 7; Anna's Hummingbird, 7; Belted Kingfisher, 1; Red-shafted Flicker, 16; Yellow-bellied Sapsucker, 1; Hairy Woodpecker, 1; Downy Woodpecker, 11; Nuttall's Woodpecker, 1; Cassin's Kingbird, 1; Black Phoebe, 7; Say's Phoebe, 3; Horned Lark, 4; Scrub Jay, 7; Am. Crow, 7; Bush-tit, 36; Wren-tit, 3; Bewick's Wren, 8; Long-billed Marsh Wren, 2; Rock Wren, 1; Mockingbird, 6; California Thrasher, 4; Hermit Thrush, 1; Western Bluebird, 44; Mountain Bluebird, 2; Blue-gray Gnatcatcher, 8; Ruby-crowned Kinglet, 11; Am. Pipit, 62; Cedar Waxwing, 30; Phainopepla, 1; Loggerhead Shrike, 13; Orange-crowned Warbler, 7; Yellow Warbler, 1; Audubon's Warbler, 43; Yel-

low-throat, 13; English Sparrow, 48; Western Meadowlark, 97; Red-wing, 1443 (1400 est., 43); Brewer's Blackbird, 584; Brown-headed Cowbird, 6; House Finch, 74; Am. Goldfinch, 6; Arkansas Goldfinch, 24; Spotted Towhee, 12; Brown Towhee, 43; Savannah Sparrow, 1; Vesper Sparrow, 4; Lark Sparrow, 7; Sage Sparrow, 6; Chipping Sparrow, 8; White-crowned Sparrow (Gambel's), 55; Golden-crowned Sparrow, 1; Song Sparrow, 37. **Total,** 90 species; about 13,730 individuals. (An estimated 4300 ducks on Lake Mathews too far away to be identified.)—Arnold Small, Ralph Mall.

390. Oakland, Calif. (Bay Farm Island, San Leandro Bay, Alameda, east bay shore from Point Isabelle to S. F. Bay Bridge, University of California campus, Tilden Nature Area, Mountain View Cemetery, Lake Merritt, Lake Temescal, Orinda Lake, southern tip of San Pablo Reservoir, vicinity of St. Mary's College, Redwood Canyon, and Skyline Blvd. area; bay shore [with salt marsh and mud flats] 33%, fresh-water marsh 15%, campus and city parks 12%, alder-bordered creek bottom 6%, chaparral 14%, canyons wooded with oak, redwood, and madrone 20%).—Dec. 26; 6:45 a.m. to 6 p.m. Clear; temp. 33° to 62°; wind NE, about 20 m.p.h. shortly after dawn, lessening and variable balance of day. Twenty-three observers in 8 parties. Total hours, 186½ (134 on foot, 52½ by car); total miles, 141½ (38½ on foot, 103 by car). Red-throated Loon, 1; Eared Grebe, 197; Western Grebe, 18; Pied-billed Grebe, 84; Double-crested Cormorant, 2741; Great Blue Heron, 13; Am. Egret, 23; Snowy Egret, 1; Green Heron, 1; Black-crowned Night Heron, 62; Canada Goose, 734; White-fronted Goose, 16; Mallard, 66; Baldpate, 1127; Pintail, 3701; Green-winged Teal, 72; Shoveller, 9; Redhead, 1; Ring-necked Duck, 6; Canvas-back, 305; Lesser Scaup Duck, 812; Am. Golden-eye, 128; Buffle-head, 27; Surf Scoter, 106; Ruddy Duck, 1325; Hooded Merganser, 6; Am. Merganser, 111; Red-breasted Merganser, 1; Turkey Vulture, 4; Sharp-shinned Hawk, 7; Cooper's Hawk, 4; Red-tailed Hawk, 29; Marsh Hawk, 5; Peregrine Falcon, 1; Pigeon Hawk, 3; Sparrow Hawk, 41; California Quail, 69; Ring-necked Pheasant, 1; Clapper Rail, 2; Sora, 1; Am. Coot, 4996 (est.); Semipalmated Plover, 154; Killdeer, 262; Black-bellied Plover, 900; Ruddy Turnstone, 2; Wilson's Snipe, 19; Hudsonian Curlew, 1 (J.W.K.); Spotted Sandpiper, 1 (H.C.A.); Willet, 1022; Greater Yellow-legs, 2 (G.W.G.); Least Sandpiper, 319; Red-backed Sandpiper, 5547 (est.); Dowitcher, 222; Western Sandpiper, 18,973 (est.); Marbled Godwit, 1398; Sanderling, 193; Avocet, 1347; Glaucous-winged Gull, 283; Western Gull, 69; Herring Gull, 91; California Gull, 161; Ring-billed Gull, 774; Short-billed Gull, 118; Bonaparte's Gull, 278; Forster's Tern, 244; Mourning Dove, 67; Band-tailed Pigeon, 1 (L.L.J.); Road-runner, 1 (observed at close range—H.C.A., L.L.S.); Screech Owl, 1; Horned Owl, 3; Burrowing Owl, 3; Short-eared Owl, 8; White-throated Swift, 1 (identification positive, observer familiar with bird—K.R.S.); Anna's Hummingbird, 25; Belted Kingfisher, 2; Red-shafted Flicker, 114; Acorn Woodpecker, 7; Yellow-bellied Sapsucker (Red-breasted), 4; Downy Woodpecker, 4; Nuttall's Woodpecker, 3; Black Phoebe, 17; Say's Phoebe, 2; Horned Lark, 31; Steller's Jay, 29; Scrub Jay, 102; Am. Crow, 2 (E.K.A.); Chestnut-backed Chickadee, 13; Plain Titmouse, 38; Bush-tit, 113; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 9; Brown Creeper, 3; Wren-tit, 54; Winter Wren, 1; Bewick's Wren, 10; Long-billed Marsh Wren, 1; Mockingbird, 3; California Thrasher, 1; Robin, 870; Varied Thrush, 12; Hermit Thrush, 15; Western Bluebird, 37; Ruby-crowned Kinglet, 21; Am. Pipit, 555; Cedar Waxwing, 158; Loggerhead Shrike, 12; Hutton's Vireo, 5; Orange-crowned Warbler, 1 (G.W.G., R.E.B.); Nashville Warbler, 2 (G.W.G., R.E.B.); Myrtle Warbler, 7; Audubon's Warbler, 115; Townsend's Warbler, 5; Yellow-throat, 2; English Sparrow, 443; Western Meadowlark, 352; Red-wing, 135; Brewer's Blackbird, 554; Brown-headed Cowbird, 16; Purple Finch, 51; House Finch, 869; Pine Siskin, 291; Am. Goldfinch, 33; Arkansas Goldfinch, 105; Red Crossbill, 1 (identified at close range—K.R.S., R.D.W.); Spotted Towhee, 49; Brown Towhee, 111; Savannah Sparrow, 18; Lark Sparrow, 9; Rufous-crowned Sparrow, 4; Oregon Junco, 337; White-crowned Sparrow, 453; Golden-crowned Sparrow, 115; Fox Sparrow, 32; Lincoln's Sparrow, 3; Song Sparrow, 116. **Total,** 135 species; about 55,827 individuals. (Seen from 2 check points on east bay shore, a raft of ducks 2½x 1 mile—90% Scaup Duck [sp.]. At 1 bird per 10 sq. yds., observers calculated 774,000 birds—G.W.G., R.E.B.)—Betty L. Adamson, Harry C. Adamson, Enid K. Austin, Robert E. Bailey, Seth T. Bailey, Prentis T. Burtis, Henry E. Childs, Paul Covel, A. Laurence Curl, Gordon W. Gullion, Robert Hicks, Leroy L. Jensen, Lorraine Jensen, Junea W. Kelly, Russell H. Pray, Kenneth R. Schulz, Marian Seibert, Milton L. Seibert, Galen Smith, Leland L. Stallcup, Robert D. Will, Elwood Wong, Herbert Wong (Golden Gate Audubon Society).

391. Oceanside-Carlsbad, Calif. (Lt. Maxton Brown Bird Refuge and vicinity, within 15-mile diameter; open fields 20%, brackish marsh 75%, seashore 5%).—Dec. 30; 9 a.m. to 4:30 p.m. Clear; temp. 40° to 70°; wind SW, 1-7 m.p.h. Five observers together. Total hours, 7½ (5 on foot, 2½ by car); total miles, 34 (6 by foot, 28 by car). Horned Grebe, 2; Eared Grebe, 15; Western Grebe, 21; Pied-billed Grebe, 1; Brown Pelican, 2; Am. Egret, 3; Snowy Egret, 2; Mallard, 1; Green-winged Teal, 120; Pintail, 1250 (1000 est., 250); Baldpate, 5; Shoveller, 3510 (3000 est., 510); Canvas-back, 201; Redhead, 1; Greater Scaup Duck, 27; Buffle-head, 3; Ruddy Duck, 393 (300 est., 93); Turkey Vulture, 1; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Prairie Falcon, 1 (studied in perfect light, at 50 ft., for 20 min., with 7X glasses, feeding on a Coot, and in flight—entire party); Sparrow Hawk, 12; Virginia Rail, 4 (seen at 75 ft. with 7X glasses and frightened from underfoot—A.L., A.Z.); Sora, 1 (seen with 7X glasses—F.Z., V.P.); Florida

Gallinule, 1; Am. Coot, 388; Black-bellied Plover, 10; Killdeer, 25; Hudsonian Curlew, 4; Long-billed Curlew, 4; Marbled Godwit, 9; Willet, 14; Dowitcher, 1; Sanderling, 21; Western Sandpiper, 9; Least Sandpiper, 94; Avocet, 26; Parasitic Jaeger, 1 (while watching a large flock of gulls and terns fishing offshore a falcon-like bird chased a gull in over the beach until the gull dropped a fish which it seized and then headed for the open sea passing low overhead; black back, long pointed wings and tail, white underparts with dark bar on sides of breast, and December date indicate a Parasitic Jaeger—entire party); Ring-billed Gull, 15; California Gull, 108; Western Gull, 4; Forster's Tern, 112; Mourning Dove, 1; Anna's Hummingbird, 7; Red-shafted Flicker, 7; Black Phoebe, 9; Say's Phoebe, 2; Bush-tit, 125; Bewick's Wren, 2; Mockingbird, 3; Loggerhead Shrike, 4; Audubon's Warbler, 12; Yellow-throat, 25; English Sparrow, 2; Western Meadowlark, 16; Red-wing, 388 (300 est., 88); Brewer's Blackbird, 244; Purple Finch, 1; House Finch, 303; Am. Goldfinch, 5; Arkansas Goldfinch, 7; Brown Towhee, 2; Savannah Sparrow, 62 (Belding's, 5); White-crowned Sparrow, 26; Song Sparrow, 16. **Total,** 65 species (1 additional subspecies); about 7693 individuals.—Arnold Lane, Vanche Plumb, Alice Zimmerman, Fern Zimmerman, Minnie Zimmerman (Orange Co. Bird Club).

392. Orange County (central and coastal), Calif. (Seal Beach, Bolsa Chica Road, Bolsa Ave., Huntington Beach, Newport Beach, Back Bay area inland 2½ miles; all within 15-mile diameter; urban 14%, salt marsh and lagoons 30%, cultivated farmland and open fields 56%).—Dec. 28; 7:30 a.m. to 12 m., 12:30 to 5 p.m. Clear; temp. 50° to 70°; wind 0-5 m.p.h. Seven observers together. Total hours, 9 (6 on foot, 2½ by car); total miles, 49 (7 by foot, 42 by car). Common Loon, 6; Arctic Loon, 1; Horned Grebe, 10; Eared Grebe, 18; Western Grebe, 230; Pied-billed Grebe, 10; Pelagic Cormorant, 209; Great Blue Heron, 2; Am. Egret, 36; Snowy Egret, 10; Baldpate, 7; Pintail, 3; Green-winged Teal, 2; Cinnamon Teal, 2; Shoveller, 11; Redhead, 1; Canvas-back, 3; Greater Scaup Duck, 58; Surf Scoter, 261; Am. Scoter, 1; Ruddy Duck, 35; Red-breasted Merganser, 7; Turkey Vulture, 3; Red-tailed Hawk, 3; Marsh Hawk, 12; Sparrow Hawk, 13; Am. Coot, 255; Snowy Plover, 15; Killdeer, 93; Black-bellied Plover, 64; Mountain Plover, 3 (on Dec. 27, 40 seen by Vanche Plumb in same dry field); Long-billed Curlew, 10; Hudsonian Curlew, 15; Willet, 160; Greater Yellow-legs, 1; Lesser Yellow-legs, 1; Least Sandpiper, 685 (600 est., 85); Red-backed Sandpiper, 25; Dowitcher, 143; Western Sandpiper, 75; Marbled Godwit, 436 (400 est., 36); Sanderling, 9; Avocet, 132; Glaucous-winged Gull, 27; Western Gull, 35; Herring Gull, 42; California Gull, 4; Ring-billed Gull, 1270 (1150 est., 120); Bonaparte's Gull, 1; Heermann's Gull, 336 (300 est., 36); Forster's Tern, 122 (100 est., 22); Band-tailed Pigeon, 2; Mourning Dove, 5; Chinese Spotted Dove, 2; Barn Owl, 1; Burrowing Owl, 1; Anna's Hummingbird, 1; Red-shafted Flicker, 1; Black Phoebe, 2; Say's Phoebe, 2; Horned Lark, 36; Am. Crow, 5; Bewick's Wren, 4; Long-billed Marsh Wren, 2; Mockingbird, 1; Am. Pipit, 255 (200 est., 55); Loggerhead Shrike, 17; Orange-crowned Warbler, 2; Audubon's Warbler, 13; Yellow-throat, 8; English Sparrow, 107 (85 est., 22); Western Meadowlark, 464 (400 est., 64); Brewer's Blackbird, 138; Purple Finch, 1; House Finch, 312 (250 est., 62); Am. Goldfinch, 9; Savannah Sparrow, 77 (Belding's, 3); White-crowned Sparrow, 40; Song Sparrow, 33. **Total,** 79 species (1 additional subspecies); about 6454 individuals. (The second hunting season for ducks was open and areas where, a few days earlier, ducks were numerous, were quite empty. However, from the Huntington Beach pier, the group discovered a black place on the ocean, acres of ducks, perhaps ten thousand. Four such islands of ducks could be seen from that point. As the party drove along the shore, similar flocks of many thousands of ducks could be seen, taking refuge at sea.)—Florence Hullsiek, Arnold Lane, Carl Nichols, Vanche Plumb, Alice Zimmerman, Fern Zimmerman, Minnie Zimmerman.

393. Orange County (northeastern), Calif. (Peter's Canyon, Irvine Park, Irvine Lake, Modjeska Canyon, Tucker Hummingbird Sanctuary, Aliso Canyon, Trabuco Canyon flats, within 15-mile diameter; cultivated area 10%, foothills 90%).—Dec. 28; 8:30 a.m. to 5 p.m. Clear; temp. 35° to 78°; wind W, less than 1 m.p.h.; observation conditions ideal. Five observers together. Total hours, 8 (5 afoot, 3 by car); total miles, 75 (4 afoot, 71 by car). Western Grebe, 4; Double-crested Cormorant, 2; Great Blue Heron, 2; Black-crowned Night Heron, 1; Baldpate, 2; Shoveller, 40; Redhead, 2; Canvas-back, 13; Lesser Scaup Duck, 2; Buffle-head, 10; Ruddy Duck, 95; White-tailed Kite, 1; Red-tailed Hawk, 4; Swainson's Hawk, 3 [no details—Ed.]; Marsh Hawk, 1; Sparrow Hawk, 5; California Quail, 16; Am. Coot, 154; Mourning Dove, 51; Chinese Spotted Dove, 4; Road-runner, 1; Anna's Hummingbird, 1; Red-shafted Flicker, 8; Acorn Woodpecker, 41; Downy Woodpecker, 1; Black Phoebe, 7; Say's Phoebe, 2; Scrub Jay, 16; Common Raven, 2; Am. Crow, 58; Plain Titmouse, 3; Bush-tit, 8; Wren-tit, 3; House Wren, 4; Mockingbird, 2; California Thrasher, 3; Robin, 1; Hermit Thrush, 1; Mountin Bluebird, 4; Loggerhead Shrike, 5; Audubon's Warbler, 45; Western Meadowlark, 18; Brewer's Blackbird, 150; House Finch, 40; Arkansas Goldfinch, 2; Spotted Towhee, 11; Brown Towhee, 23; Lark Sparrow, 100; Oregon Junco, 30; White-crowned Sparrow (Gambel's), 31; **Total,** 50 species; about 1033 individuals.—Eric E. Eastman, Harry Prichard, Don P. Maher, Ruth M. Smith, Margaret R. Harding (Orange County Bird Club).

394. Palm Springs (Riverside Co.), Calif. (yards, airport, stables, highways, to Andreas Canyon and Palm Canyon; desert area 80%, cottonwood, palms, mesquite, brushy areas 15%, water courses 5%).—Dec. 31; 7 a.m. to 4 p.m. Clear with

a few scattered clouds; temp. 43° to 70°; calm. Six observers in 2 parties. Total hours, 18; total miles, 63 (12 on foot, 51 by car). Green-winged Teal, 1; Red-tailed Hawk, 2; Sparrow Hawk, 1; California Quail, 10; Gambel's Quail, 50; Killdeer, 1; Mourning Dove, 13; Chinese Spotted Dove, 6; Red-shafted Flicker, 3; Black Phoebe, 4; Say's Phoebe, 11; Verdin, 5; Dipper, 1; Bewick's Wren, 1; Cactus Wren, 2; Rock Wren, 6; Mockingbird, 11; Robin, 6; Western Bluebird, 325; Ruby-crowned Kinglet, 3; Cedar Waxwing, 10; Phainopepla, 14; Loggerhead Shrike, 6; Myrtle Warbler, 1; Audubon's Warbler, 9+; English Sparrow, 200; Western Meadowlark, 100; Purple Finch, 1; House Finch, 77; Arkansas Goldfinch, 7; Abert's Towhee, 7; White-crowned Sparrow, 18. **Total,** 32 species; about 912 individuals.—Margaret Dearing, Hugh P. Dearing, Doris DeMoulin, Cecil H. DeMoulin, Ruth W. Cox, Earle R. Greene.

395. Pasadena, Calif. (scattered areas of a 15-mile diameter circle centering at San Gabriel Blvd. and Lorain Rd., including Mt. Wilson, San Gabriel Wildlife Sanctuary and adjacent area; grassy fields with scattered trees 30%, live oak and plane-tree woodland 20%, pine-oak forest 4%, river-bottom woodland 10%, chaparral 15%, canyon riparian 3%, river-bed 3%, ponds 5%, wooded parks 10%). —Dec. 28; 6:15 a.m. to 4:30 p.m. Clear and mild, gentle variable breezes. Twenty-three observers in 9 parties. Total hours, about 80; total miles, about 50 on foot (car used between points). Eared Grebe, 1; Pied-billed Grebe, 13; Great Blue Heron, 6; Am. Egret, 16; Snowy Egret, 28; Green Heron, 2; Black-crowned Night Heron, 9; Mallard, 2; Gadwall, 1; Pintail, 2; Green-winged Teal, 1; Ring-necked Duck, 15; Canvas-back, 5; Ruddy Duck, 4; Sharp-shinned Hawk, 3; Cooper's Hawk, 7; Red-tailed Hawk, 10; Red-shouldered Hawk, 5; Golden Eagle, 1; Prairie Falcon, 1; Pigeon Hawk, 1; Sparrow Hawk, 19; California Quail, 87; Ring-necked Pheasant, 3; Virginia Rail, 2; Sora, 1; Florida Gallinule, 1; Am. Coot, 134; Killdeer, 315; Wilson's Snipe, 19; Greater Yellow-legs, 23; California Gull, 2; Ring-billed Gull, 21; Band-tailed Pigeon, 185; Mourning Dove, 89; Chinese Spotted Dove, 92; Road-runner, 1; Screech Owl, 1; Horned Owl, 3; Spotted Owl, 1; White-throated Swift, 50; Anna's Hummingbird, 70; Belted Kingfisher, 1; Red-shafted Flicker, 90; Acorn Woodpecker, 62; Lewis's Woodpecker, 1; Yellow-bellied Sapsucker, 6; Williamson's Sapsucker, 1 (A.B., D.B.—seen close-up at Mt. Wilson); Hairy Woodpecker, 1; Downy Woodpecker, 8; Nuttall's Woodpecker, 4; White-headed Woodpecker, 4; Black Phoebe, 58; Say's Phoebe, 5; Steller's Jay, 12; Scrub Jay, 87; Am. Crow, 241; Clark's Nutcracker, 2; Mountain Chickadee, 42; Plain Titmouse, 26; Bush-tit, 222; White-breasted Nuthatch, 6; Wren-tit, 31; House Wren, 9; Bewick's Wren, 9; Long-billed Marsh Wren, 3; Rock Wren, 2; Mockingbird, 56; California Thrasher, 13; Robin, 11; Hermit Thrush, 5; Western Bluebird, 19; Blue-gray Gnatcatcher, 1; Ruby-crowned Kinglet, 20; Am. Pipit, 216; Cedar Waxwing, 170; Phainopepla, 1; Loggerhead Shrike, 22; Hutton's Vireo, 7; Orange-crowned Warbler, 6; Nashville Warbler, 1 (J.H.C.); Audubon's Warbler, 362; Yellow-throat, 21; Black-capped Warbler, 2; English Sparrow, 163; Western Meadowlark, 134; Red-wing, 69; Brewer's Blackbird, 877; Cardinal, 24; Purple Finch, 17; Cassin's Finch, 13; House Finch, 589; Am. Goldfinch, 120; Arkansas Goldfinch, 66; Lawrence's Goldfinch, 1; Green-tailed Towhee, 1 (J.H.C.); Spotted Towhee, 82; Brown Towhee, 111; Savannah Sparrow, 150; Vesper Sparrow, 1 (R.H.); Lark Sparrow, 66; Rufous-crowned Sparrow, 1; Oregon Junco, 123; Gray-headed Junco, 1 (A.B., D.B.); Chipping Sparrow, 12; White-crowned Sparrow, 215; Golden-crowned Sparrow, 25; Fox Sparrow, 5; Lincoln's Sparrow, 12; Song Sparrow, 75. **Total,** 110 species; about 6071 individuals.—Mr. and Mrs. W. Barnett, Arthur Barr, Donald Barr, Arlen Bell, Mr. and Mrs. J. H. Comby, Caroline Daugherty, Margaret Fenninger, Dr. French, Pat Gould, Bill Hawkins, Robert Hays, Hazel Lewis, Enid Michael, Marguerite Parker, Dan Quattlebaum, Irma Rodgers, Alma Stultz, Jessie Tillman, Anne Walden, John Willis, Gertrude Woods.

396. Pauma Valley (northern San Diego Co.), Calif. (area 2½ miles in diameter, including citrus and avocado groves, alfalfa fields, chaparral, Pauma and Nigger creeks, San Luis Rey River bottom, live oak-wooded wash of Pauma Creek, same area as last year with addition of 2 reservoirs 5 miles from center of area, 1¼ and 4¼ acres respectively; elevation 1000 ft.)—Jan. 1; 6:30 a.m. to 4:45 p.m. Medium to heavy overcast with sun about 2 hours; average temp. 46° calm; creek and riverbottoms dry. Two observers. Total hours, 8¼ (6 afoot, 2¼ by car); total miles, 9 (5 by car, 4 on foot). Baldpate, 1; Canvas-back, 1; Lesser Scaup Duck, 29; Ruddy Duck, 5; Am. Coot, 22; White-tailed Kite, 2; Red-tailed Hawk, 4; Red-shouldered Hawk, 2; Marsh Hawk, 2; Sparrow Hawk, 9; California Quail, 66; Killdeer, 26; Band-tailed Pigeon, 15; Mourning Dove, 14; Road-runner, 1; Barn Owl, 1; Burrowing Owl, 1; Anna's Hummingbird, 1; Red-shafted Flicker, 7; Acorn Woodpecker, 22; Lewis's Woodpecker, 1; Yellow-bellied Sapsucker (Red-naped), 1; Black Phoebe, 4; Say's Phoebe, 6; Scrub Jay, 12; Am. Crow, 3; Plain Titmouse, 5; Bush-tit, 41; Wren-tit, 7; House Wren, 3; Rock Wren, 2; California Thrasher, 4; Robin, 2; Western Bluebird, 78; Ruby-crowned Kinglet, 2; Am. Pipit, 167; Loggerhead Shrike, 2; Orange-crowned Warbler, 1; Audubon's Warbler, 134; English Sparrow, 3; Western Meadowlark, 14; Brewer's Blackbird, 512 (partly est.); House Finch, 86; Am. Goldfinch, 1; Arkansas Goldfinch, 41; Lawrence's Goldfinch, 1; Spotted Towhee, 4; Brown Towhee, 11; Savannah Sparrow, 25; Vesper Sparrow, 14; Lark Sparrow, 5; Oregon Junco, 4; Chipping Sparrow, 15; White-crowned Sparrow (Gambel's), 31; Song Sparrow, 3. **Total,** 56 species; about 1476 individuals.—Mr. and Mrs. Millard J. Beemer.

397. Sacramento, Calif. (Sacramento River

levee roads north to Elk Horn ferry and Woodland sewer, Lake Washington, and William Land Park and Southside Park; open farmland 55%; city parks and suburbs 15%, sloughs and lakes 10%, deciduous woods 5%, marshland 15%).—Dec. 29; 7:30 a.m. to 5:30 p.m. Thick fog in a.m., clear in p.m.; temp. 28° to 50° to 45°; no wind in a.m., S, 1-7 m.p.h. in p.m. Two observers together. Total hours, 10; total miles, 60 (55 in car, 5 on foot). Pied-billed Grebe, 26; Great Blue Heron, 3; Am. Egret, 9; Black-crowned Night Heron, 137; Canada Goose, 258 (including Cackling); unidentified geese, 488; Mallard, 323; Baldpate, 2; Pintail, 1; Green-winged Teal, 1; Ring-necked Duck, 72; Canvas-back, 8; Scaup Duck (sp.), 2; Ruddy Duck, 2; White-tailed Kite, 2 (all field marks noted through 6X30 binoculars at fairly close range—G.C.); Cooper's Hawk, 1; Red-tailed Hawk, 13; Marsh Hawk, 1; Sparrow Hawk, 30; Ring-necked Pheasant, 1; Florida Gallinule, 1; Am. Coot, 725; Killdeer, 101; Wilson's Snipe, 1; Greater Yellow-legs, 1; Dowitcher, 18; Western Sandpiper, 194; California Gull, 65; Ring-billed Gull, 5; Burrowing Owl, 2; Anna's Hummingbird, 2; Red-shafted Flicker, 35; Acorn Woodpecker, 6; Black Phoebe, 1; Say's Phoebe, 2; Scrub Jay, 32; Yellow-billed Magpie, 54; Am. Crow, 47; Plain Titmouse, 10; White-breasted Nuthatch, 4; Rock Wren, 1; Robin, 27; Ruby-crowned Kinglet, 1; Am. Pipit, 93; Cedar Waxwing, 60; Loggerhead Shrike, 1; Audubon's Warbler, 38; English Sparrow, 351; Western Meadowlark, 73; Red-wing, 118; Brewer's Blackbird, 2835 (est. from photograph of flock); House Finch, 26; Am. Goldfinch, 151; Arkansas Goldfinch, 10; Spotted Towhee, 2; Lark Sparrow, 16; Oregon Junco, 27; White-crowned Sparrow, 76; Golden-crowned Sparrow, 3; Song Sparrow, 9. **Total,** 59 species (1 additional subspecies); about 6604 individuals.—Gene Christian, Gary Stone.

398. Sacramento National Wildlife Refuge, Willows (Glenn Co.), Calif. (from refuge headquarters north and east to pools 1 through 6, south along west boundary to pools 7 through 12, returning to headquarters along middle road; lakes and ponds 20%, marsh 15%, abandoned fields 55%, farmland 10%).—Jan. 2; 8 a.m. to 4 p.m. Fog at start, becoming clear with high scattered clouds at 11 a.m., gradually clouding up until end of trip; temp. 35° to 50°; wind N, 5-7 m.p.h.; no snow or ice. Two observers together. Total hours, 8; Total miles, 22 (21 by car, 1 on foot). Pied-billed Grebe, 15; White Pelican, 90; Double-crested Cormorant, 2; Great Blue Heron, 8; Am. Egret, 6; Snowy Egret, 2; Black-crowned Night Heron, 31; Am. Bittern, 4; Whistling Swan, 1600; Canada Goose, 225,335 (including Lesser, 10,000; Cackling, 215,000); White-fronted Goose, 80,000; Snow Goose, 280,000; Ross's Goose, 145; Mallard, 65,000; Gadwall, 2; Baldpate, 100,000; Pintail, 120,000; Green-winged Teal, 7000; Shoveller, 9000; Canvas-back, 7; Am. Golden-eye, 1; Buffle-head, 2; Ruddy Duck, 2; Am. Merganser, 525; Red-tailed Hawk, 2; Marsh Hawk, 1; Pigeon Hawk, 1; Sparrow Hawk, 1; Ring-necked Pheasant, 375; Am. Coot, 4000; Wilson's Snipe, 1; Avocet, 3; California Gull, 6; Burrowing Owl, 2; Red-shafted Flicker, 4; Loggerhead Shrike, 3; Am. Pipit, 1; English Sparrow, 50; Western Meadowlark, 8; Red-wing, 15,000; White-crowned Sparrow, 235. **Total,** 41 species (2 additional subspecies); about 908,470 individuals.—Hortin Jensen, R. C. Hanson.

399. San Bernardino, Calif. (Campbell ranch 3 miles east, 5th St. park lake in town, Santa Ana riverbottom 1 mile southeast, Swing ranch lakes, Del Rosa hills; pasture and streamside willows 10%, ponds and cattail marshes 40%, riverbottom and deciduous woods 20%, chaparral 20%, town suburbs and roadsides 10%).—Dec. 26; 9 a.m. to 4:30 p.m. Clear; temp. 40° to 75°; wind, calm, light SE to N, 10 m.p.h. Five observers together. Total hours, 20 (on foot and in car); total miles, 10 (7 in car, 3 on foot). Pied-billed Grebe, 2; Mallard, 3; Cinnamon Teal, 10; Green-winged Teal, 7; Pintail, 40; Baldpate, 22; Shoveller, 49; Canvas-back, 13; Redhead, 1; Ringed-necked Duck, 1; Lesser Scaup Duck, 7; Ruddy Duck, 42; Am. Merganser, 2; Sharp-shinned Hawk, 1; Red-tailed Hawk, 1; Marsh Hawk, 1; Sparrow Hawk, 5; California Quail, 2; Ring-necked Pheasant, 1; Sora, 2; Am. Coot, 95; Killdeer, 17; Wilson's Snipe, 16; Band-tailed Pigeon, 1; Mourning Dove, 2; Chinese Spotted Dove, 6; Anna's Hummingbird, 1; Red-shafted Flicker, 5; Black Phoebe, 5; Say's Phoebe, 1; Gray (?) Flycatcher (only one it could be of that type this season of year—E.R.E.), 1; Western Flycatcher, 1 (A.E.W.) [no substantiating details—Ed.]; California Jay, 2; Common Raven, 2; Am. Crow, 2; Bush-tit, 1; Wren-tit, 1; Long-billed Marsh Wren, 1; Mockingbird, 2; Cedar Waxwing, 27; Loggerhead Shrike, 3; Audubon's Warbler, 8; English Sparrow, 11; Western Meadowlark, 15; Red-wing, 66; Brewer's Blackbird, 87; Purple Finch, 10; House Finch, 15; Arkansas Goldfinch, 12; Spotted Towhee, 1; Brown Towhee, 9; Savannah Sparrow, 1; Oregon Junco, 2; Chipping Sparrow, 5; White-crowned Sparrow (Gambel's), 17; Song Sparrow, 6. **Total,** 56 species; 683 individuals.—Elton R. Edge, Harold M. Hill, Ellen F. Kidd, Josephine C. Vaughan, Ann E. Wissler (San Bernardino Valley Audubon Society).

400. San Diego, Calif. (San Diego to Sweetwater Reservoir).—Dec. 29; 7 a.m. to 5 p.m. Clear; average temp. 55°; wind 3.2 m.p.h. Three observers in 2 parties. Total hours afield, 11; total party miles, 108 (102 by car, 6 on foot). Common Loon, 6; Arctic Loon, 6; Red-throated Loon, 4; Horned Grebe, 5; Eared Grebe, 60; Western Grebe, 220; Sooty Shearwater, 1 (beach); Brown Pelican, 130; Double-crested Cormorant, 50; Brandt's Cormorant, 30; Pelagic Cormorant, 2; Great Blue Heron, 3; Am. Egret, 32; Snowy Egret, 73; Whistling Swan, 4; Brant, 1000; Gadwall, 1; Baldpate, 500; Pintail, 200; Green-winged Teal, 15; Shoveller, 50; Lesser Scaup Duck, 3000; Am. Golden-eye, 1; Buffle-head, 54; White-winged Scoter, 2; Surf Scoter, 1000; Ruddy Duck, 3; Red-

breasted Merganser, 16; Red-tailed Hawk, 2; Ferruginous Hawk, 2; Marsh Hawk, 2; Pigeon Hawk, 2; Sparrow Hawk, 29; California Quail, 71; Clapper Rail, 1; Florida Gallinule, 1; Am. Coot, 179; Snowy Plover, 6; Killdeer, 72; Black-bellied Plover, 18; Surf-bird, 1; Ruddy Turnstone, 5; Black Turnstone, 15; Long-billed Curlew, 3; Hudsonian Curlew, 10; Spotted Sandpiper, 4; Wandering Tattler, 1; Willet, 500; Greater Yellow-legs, 17; Knot, 4; Baird's Sandpiper, 2 [no details—Ed.]; Least Sandpiper, 350; Red-backed Sandpiper, 4; Dowitcher, 5; Western Sandpiper, 300; Marbled Godwit, 600; Sanderling, 40; Avocet, 125; Glaucous-winged Gull, 4; Western Gull, 300; Herring Gull, 100; California Gull, 500; Ring-billed Gull, 500; Bonaparte's Gull, 28; Heermann's Gull, 75; Forster's Tern, 10; Royal Tern, 2; Mourning Dove, 450; Burrowing Owl, 1; Short-eared Owl, 3; Anna's Hummingbird, 10; Belted Kingfisher, 2; Red-shafted Flicker, 3; Acorn Woodpecker, 4; Nuttall's Woodpecker, 1; Cassin's Kingbird, 2; Black Phoebe, 3; Long-billed Marsh Wren, 1; Mockingbird, 46; Jay, 1; Common Raven, 2; Bush-tit, 105; Wren-tit, 3; Long-billed Marsh Wren, 1; Mockingbird, 46; California Thrasher, 2; Robin, 7; Hermit Thrush, 1; Western Bluebird, 9; Plumbeous Gnatcatcher, 1; Ruby-crowned Kinglet, 1; Am. Pipit, 6; Loggerhead Shrike, 25; Orange-crowned Warbler, 1; Audubon's Warbler, 1150; Yellow-throat, 3; English Sparrow, 260; Western Meadowlark, 44; Red-wing, 1100; Brewer's Blackbird, 200; House Finch, 750; Arkansas Goldfinch, 18; Brown Towhee, 16; Savannah Sparrow, 64 (including Belding's, 56); Vesper Sparrow, 5; Lark Sparrow, 23; Rufous-crowned Sparrow, 2; White-crowned Sparrow (Gambel's), 150; Golden-crowned Sparrow, 2; Lincoln's Sparrow, 1; Song Sparrow, 4. **Total,** 112 species (1 additional); about 14,853 individuals.—Lawrence M. Huey, Karl W. Kenyon, James Sams.

401. San Francisco, Calif. (Marina, Fine Arts Lake, Mountain Lake, Lincoln Park, Land's End, Seal Rocks, Ocean Beach, Golden Gate Park, Pine Lake, Stern Grove, Twin Peaks, Hunters Point, Bayshore, McLaren Park; ocean beach 8%, bay shore 6%, parks 57%, ponds and marshes 15%, open fields 8%, chaparral 6%).—Dec. 26; 7:30 a.m. to 4:45 p.m. Clear; temp. 44° to 58°; wind W, 6 m.p.h. Thirty-nine observers in 8 parties. Total hours, 59½; total miles, 53 (51 on foot, 2 by car). Arctic Loon, 2; Holboell's Grebe, 1; Horned Grebe, 2; Eared Grebe, 272; Western Grebe, 55; Pied-billed Grebe, 66; Brown Pelican, 64; Double-crested Cormorant, 311; Brandt's Cormorant, 3; Great Blue Heron, 2; Am. Egret, 8; Canada Goose, 2; Snow Goose, 1; Mallard, 941; Baldpate, 294; Pintail, 9; Shoveller, 19; Wood Duck, 3; Redhead, 3; Ring-necked Duck, 86; Canvas-back, 208; Lesser Scaup Duck, 68; Am. Golden-eye, 1; Surf Scoter, 38; Am. Scoter, 5; Ruddy Duck, 297; Red-breasted Merganser, 2; Sharp-shinned Hawk, 3; Red-tailed Hawk, 4; Sparrow Hawk, 5; California Quail, 244; Sora, 1; Am. Coot, 974; Killdeer, 30; Surf-bird, 31; Black Turnstone, 29; Willet, 26; Greater Yellow-legs, 5; Western Sandpiper, 3; Sanderling, 302; Glaucous-winged Gull, 647; Western Gull, 412; Herring Gull, 11; California Gull, 1557; Ring-billed Gull, 26; Short-billed Gull, 309; Bonaparte's Gull, 70; Heermann's Gull, 16; Mourning Dove, 1; Anna's Hummingbird, 86; Belted Kingfisher, 2; Red-shafted Flicker, 30; Hairy Woodpecker, 1; Black Phoebe, 20; Scrub Jay, 7; Common Raven, 2; Chestnut-backed Chickadee, 161; Plain Titmouse, 6; Bush-tit, 56; Red-breasted Nuthatch, 10; Brown Creeper, 2; Wren-tit, 2; Winter Wren, 3; Bewick's Wren, 1; Long-billed Marsh Wren, 4; Robin, 87; Hermit Thrush, 5; Ruby-crowned Kinglet, 9; Cedar Waxwing, 47; Loggerhead Shrike, 1; Hutton's Vireo, 1; Audubon's Warbler, 88; Townsend's Warbler, 2; Yellow-throat, 3; English Sparrow, 379; Western Meadowlark, 36; Brewer's Blackbird, 328; Purple Finch, 14; House Finch, 346; Pine Siskin, 1; Arkansas Goldfinch, 14; Spotted Towhee, 7; Savannah Sparrow, 3; Oregon Junco, 193; White-crowned Sparrow, 809; Golden-crowned Sparrow, 71; White-throated Sparrow, 1; Fox Sparrow, 21; Song Sparrow, 74. **Total,** 89 species; 10,402 individuals.—G. Agrella, A. Boles, D. Beeson, S. Bozant, Myra Brown, B. C. Cain, C. L. Carson, J. M. F. Dubois, Jean Fay, A. Haight, G. Kilham, E. Kilham, L. R. Leinbach, M. B. Leinbach, P. McCarthy, M. Milwain, E. A. Mayers, Mr. and Mrs. O. J. Millard, J. L. Mathis, III, A. H. Myer, H. G. Peterson, R. Peterson, W. Pope, Amy Rinehart, Ethel E. Richardson, C. Sather, D. D. and Frank Scott, M. Sterne, J. Wheeler, M. H. Young, F. Zogfafos, Jr., 6 Oakland Boy Scouts (Golden Gate Audubon Society).

402. San Jose, Calif. (center northeast of town, corner of Capitol Ave. and Mabury Road, 5 segments of circle worked to some degree; marsh area 20%, stream thicket 6%, pasture 27%, foothill canyon 23%, suburbs 16%, orchards 4%, waste fields 4%).—Dec. 26; 8 a.m. to 4 p.m. Temp. 30° to 60°; wind variable, under 3 m.p.h. Twenty-four observers in 5 parties. Total hours, 29⅓; total miles, 24½ (on foot). Horned Grebe, 1; Eared Grebe, 3; Pied-billed Grebe, 3; Double-crested Cormorant, 3; Great Blue Heron, 4; Am. Egret, 1; Am. Bittern, 2; Canada Goose, 625 (600 est., 25); Mallard, 52; Blue-winged Teal, 20; Green-winged Teal, 132; Pintail, 404; Gadwall, 1; Shoveller, 13; Lesser Scaup Duck, 4; Am. Golden-eye, 27; Ruddy Duck, 171; White-tailed Kite, 2; Cooper's Hawk, 2; Sharp-shinned Hawk, 5; Red-tailed Hawk, 25; Ferruginous Hawk, 1; Golden Eagle, 5; Marsh Hawk, 3; Peregrine Falcon, 1; Sparrow Hawk, 31; California Quail, 81; Am. Coot, 1000 (est.); Killdeer, 270; Black-bellied Plover, 29; Wilson's Snipe, 13; Long-billed Curlew, 81; Spotted Sandpiper, 1; Willet, 500 (est.); Greater Yellow-legs, 20; Western Sandpiper, 500; Least Sandpiper, 1000 (est.); Red-backed Sandpiper, 200 (est.); Dowitcher, 200 (est.); Avocet, 1550 (est.); Glaucous-winged Gull, 1012 (1000 est., 12); Western Gull, 200; Herring Gull 15; California Gull, 506 (500 est., 6); Ring-billed Gull, 2500 (est.); Bonaparte's Gull, 2100 (est.); Band-tailed

Pigeon, 75; Mourning Dove, 1; Pygmy Owl, 1; Burrowing Owl, 1; Short-eared Owl, 1; Anna's Hummingbird, 12; Belted Kingfisher, 1; Red-shafted Flicker, 47; Acorn Woodpecker, 23; Yellow-bellied Sapsucker, 3; Hairy Woodpecker, 1; Nuttall's Woodpecker, 2; Black Phoebe, 17; Say's Phoebe, 6; Horned Lark, 200 (est.); Steller's Jay, 17; Scrub Jay, 99; Yellow-billed Magpie, 3; Am. Crow, 9; Chestnut-backed Chickadee, 20; Plain Titmouse, 20; Bush-tit, 41; White-breasted Nuthatch, 6; Wren-tit, 4; House Wren, 1; Bewick's Wren, 6; Long-billed Marsh Wren, 5; Cañon Wren, 1; Mocking-bird, 23; California Thrasher, 3; Robin, 14; Varied Thrush, 12; Hermit Thrush, 12; Western Bluebird, 106; Ruby-crowned Kinglet, 17; Am. Pipit, 204; Loggerhead Shrike, 20; Hutton's Vireo, 5; Orange-crowned Warbler, 2; Audubon's Warbler, 256; English Sparrow, 77; Western Meadow-lark, 412; Brewer's Blackbird, 2500 (est.); Purple Finch, 3; House Finch, 336; Arkansas Goldfinch, 288; Spotted Towhee, 22; Brown Towhee, 62; Savannah Sparrow, 237; Lark Sparrow, 16; Oregon Junco, 45; White-crowned Sparrow, 930; Golden-crowned Sparrow, 176; Fox Sparrow, 25; Song Sparrow, 80. **Total,** 101 species; about 28,659 individuals.—James Peterson. [Other observers not given.]

403. Yosemite Valley, Yosemite National Park, Calif. (Mirror Lake, 4000 ft. elevation to El Portal, 2000 ft. elevation; 15 miles distance).—Dec. 28; 9 a.m. to 5 p.m. Clear; 15-in. crusted snow on ground; frozen snow on trees; temp. 25° to 50°; no wind. Twenty-one observers in 5 groups. Total hours, 29 (afoot); total miles, 28 (afoot). Great Blue Heron, 1; Mallard, 9; Cooper's Hawk, 1; Red-tailed Hawk, 3; Mountain Quail, 9; Band-tailed Pigeon, 96; Belted Kingfisher, 3; Red-shafted Flicker, 5; Pileated Woodpecker, 3; Acorn Woodpecker, 29; Hairy Woodpecker, 7; Downy Woodpecker, 4; White-headed Woodpecker, 2; Ash-throated Flycatcher, 1 [no details—Ed.]; Black Phoebe, 10; Steller's Jay, 117; Scrub Jay, 4; Mountain Chickadee, 16; White-breasted Nuthatch, 3; Red-breasted Nuthatch, 7; Brown Creeper, 52; Dipper, 12; Winter Wren, 1; Cañon Wren, 4; Robin, 2; Western Bluebird, 7; Townsend's Solitaire, 1; Golden-crowned Kinglet, 27; Ruby-crowned Kinglet, 19; Hutton's Vireo, 3; English Sparrow, 1; Arkansas Goldfinch, 6; Spotted Towhee, 10; Brown Towhee, 22; Oregon Junco, 35; White-crowned Sparrow, 2; Song Sparrow, 18. **Total,** 37 species; 552 individuals.—Mr. and Mrs. Walter J. Fitzpatrick, Grace Ewing, Virginia Ann Sturm, Bona May McHenry, Bruce McHenry, Fred Ernst, Rolf Clark, Keith McHenry, Ray Poff, Richard Russell, Sandra Veans, Joe Smith, Roger Rust, Bob McIntyre, Jr., Harry Parker, Bob Sharp, Robert McIntyre, Charles Eckart, Robert Eckart, Larry Morgenson.

A Summary of Largest Counts of Individuals

by Chandler S. Robbins

The number of species reported on the 50th Christmas Bird Count reached an all-time high. Excluding those questioned editorially, 445 species were reported from the United States and Canada. This is 23 more than were reported last year, and includes 5 species which have not previously been recorded on Christmas Counts: Wanderling Tattler, Curlew, Sandpiper, Black-billed Cuckoo, Gray Vireo, Black-headed Grosbeak.

That coverage was substantially better than last year is demonstrated by the fact that nearly seventy per cent of the species in the following list were reported in higher (or equal) numbers than last year.

The State of Texas has the most entries in this list, with California a close second, and Florida third. Harlingen, Tex., was ahead or tied on 35 species; Laguna Atascosa Refuge, Tex., on 20; Los Angeles, Calif., on 18; Monroe, Fla., on 17; and Pasadena, Calif., and Santa Catalina Mts., Ariz., on 14 species.

Common Loon, 126 (*Mass.*, Monomy); Arctic Loon, 14 (*Calif.*, Los Angeles); Red-throated Loon, 151 (*N.Y.*, Amagansett, L.I.); Holboell's Grebe, 9 (*Wash.*, Olympia); Horned Grebe, 167 (*S.C.*, Charleston); Eared Grebe, 272 (*Calif.*, San Francisco); Least Grebe, 22 (*Tex.*, Harlingen); Western Grebe, 721 (*Calif.*, Los Angeles); Pied-billed Grebe, 150 (*Fla.*, Tallahassee); Sooty Shearwater, 1500 (*Oreg.*, Tillamook); Fulmar, 1 (*Calif.*, Monterey); White Pelican, 295 (*Tex.*, Laguna Atascosa); Brown Pelican, 1633 (*Fla.*, St. Petersburg); Gannet, 181 (*N.Y.*, Amagansett, L.I.); European Cormorant, 610 (*R.I.*, Little Compton); Double-crested Cormorant 2741 (*Calif.*, Oakland); Mexican Cormorant, 223 (*Tex.*, Laguna Atascosa Refuge); Brandt's Cormorant, 98 (*Calif.*, Monterey); Pelagic Cormorant, 209 (*Calif.*, Orange Co., central and coastal); Water-turkey, 79 (*Fla.*, Monroe); Man-o'-war-bird, 6 (*Fla.*, Key West).

Great White Heron, 1 (*Fla.*, Gainesville, Key West); Great Blue Heron, 85 (*Calif.*, Morro Bay); Am. Egret, 607 (*Fla.*, Monroe); Snowy Egret, 345 (*Fla.*, Myakka); Reddish Egret, 42 (*Tex.*, Laguna Atascosa Refuge); Louisana Heron, 221 (*Fla.*, Monroe); Little Blue Heron, 472 (*Fla.*, Monroe); Green Heron, 42 (*Fla.*, Monroe); Black-crowned Night Heron, 150 (*N.J.*, Cape May); Yellow-crowned Night Heron, 11 (*Fla.*, Monroe); Am. Bittern, 6 (*Fla.*, Monroe); Least Bittern, 1 (*Tex.*, Harlingen, Laguna Atascosa Refuge); Wood Ibis, 153 (*Fla.*, St. Petersburg); White-faced Ibis, 125 Muleshoe Refuge); Cinnamon Teal, 9; (*Tex.*, La-Myakka).

Mute Swan, 275 (*N.Y.*, Amagansett, L.I.); Whistling Swan, 4180 (*Md.*, Susquehanna Flats); Trumpeter Swan, 17 (*Nev.*, Ruby Lake Refuge); Canada Goose, 235,335 (*Calif.*, Sacramento Refuge);

Brant, 20,000 (*N.J.*, Barnegat); Emperor Goose, 2 (*Calif.*, Monterey); White-fronted Goose, 80,000 (*Calif.*, Sacramento Refuge); Snow Goose, 280,000 (*Calif.*, Sacramento Refuge); Blue Goose, 9829 (*La.*, Sabine Refuge); Ross's Goose, 145 (*Calif.*, Sacramento Refuge); Black-bellied Tree Duck, 25 (*Tex.*, Harlingen); Mallard, 230,000 (*Tex.*, Muleshoe Refuge); Black Duck, 22,000 (*Ind.*, Hovey Lake); Mottled Duck, 51 (*Tex.*, Laguna Atascosa Refuge); Gadwall, 2000 (*Tenn.*, Reelfoot Lake); European Widgeon, 10 (*N.C.*, Wilmington); Baldpate, 100,000 (*Calif.*, Sacramento Refuge); Pintail, 138,000 (*Tex.*, Muleshoe); European Teal, 1 (*D.C.*, Washington); Green-winged Teal, 7000 (*Calif.*, Sacramento Refuge); Blue-winged Teal, 375 (*Tex.*, Muleshoe Refuge); Cinnamon Teal, 9; (*Tex.*, Laguna Atascosa Refuge); Shoveller, 9000 (*Calif.*, Sacramento Refuge); Wood Duck, 201 (*Oreg.*, Eugene); Redhead, 43,000 (*Tex.*, Laguna Atascosa Refuge); Ring-necked Duck, 20,000 (*Tenn.*, Reelfoot Lake); Canvas-back, 4070 (*Md.*, Susquehanna Flats); Greater Scaup Duck, 11,400 (*Conn.*, New Haven); Lesser Scaup Duck, 3000 (*Calif.*, San Diego); Am. Golden-eye, 4885 (*N.Y.*, Buffalo); Barrow's Golden-eye, 8 (*Wyom.*, Grand Teton); Buffle-head, 1300 (*Mass.*, Lynn); Old-squaw, 3750 (*Mass.*, Monomoy); Harlequin Duck, 12 (*Mass.*, Martha's Vineyard); Common Eider, 300,000 (*Mass.*, Monomoy); King Eider, 7 (*Me.*, Wells); White-winged Scoter, 6338 (*Mass.*, Cap Cod); Surf-Scoter, 1000 (*Calif.*, San Diego); Am. Scoter, 1600 (*Mass.*, Monomoy); Ruddy Duck, 1325 (*Calif.*, Oakland); Hooded Merganser, 450 (*Ky.*, Murray); Am. Merganser, 5090 (*Ohio*, Toledo); Red-breasted Merganser, 714 (*N.J.*, Barnegat).

Turkey Vulture, 438 (*Md.*, Ocean City); Black Vulture, 112 (*Miss.*, Moon Lake; *Fla.*, Myakka); White-tailed Kite, 8 (*Tex.*, Laguna Atascosa Refuge); Goshawk, 2 (*Que.*, Montreal); Sharp-shinned Hawk, 14 (*Utah*, Salt Lake City); Cooper's Hawk, 13 (*N.J.*, Cape May); Red-tailed Hawk, 30 (*Tex.*, Houston); Harlan's Hawk, 5 (*Kans.*, Baldwin); Red-shouldered Hawk, 28 (*Fla.*, Monroe); Broad-winged Hawk, 2 (*Fla.*, Daytona Beach; *Ga.*, Atlanta); Swainson's Hawk, 1 (*Tex.*, Laguna Atascosa Refuge); Sennett's White-tailed Hawk, 5 (*Tex.*, Laguna Atascosa Refuge); Rough-legged Hawk, 31 (*Oreg.*, Burns); Ferruginous Hawk, 3 (*Utah*, Salt Lake City); Harris's Hawk, 60 (*Tex.*, Laguna Atascosa Refuge); Golden Eagle, 38 (*Okla.*, Salt Plains Refuge); Bald Eagle, 38 (*Okla.*, Salt Plains); Marsh Hawk, 64 (*Del.*, Bombay Hook Refuge); Osprey, 10 (*Fla.*, Miami); Audubon's Caracara, 14 (*Tex.*, Laguna Atascosa Refuge); Prairie Falcon, 3 (*Oreg.*, Burns); Peregrine Falcon, 8 (*Tex.*, Laguna Atascosa Refuge); Pigeon Hawk, 3 (*Calif.*, Oakland; *Fla.*, Miami); Sparrow Hawk, 177 (*Tex.*, Harlingen).

Chachalaca, 19 (*Tex.*, Harlingen); Blue Grouse, 2 (*Wash.*, Willapa Refuge); Ruffed Grouse, 27 (*Minn.*, Cedar Creek Forest); Greater Prairie Chicken, 41 (*Nebr.*, Crescent Lake Refuge); Sharp-tailed Grouse, 46 (*Sask.*, Yorkton); Sage Hen, 23 (*Nev.*, Ruby Lake Refuge); European Partridge, 34 (*Wash.*, Spokane); Bob-white, 108 (*Ohio*, Buckeye Lake); Scaled Quail, 62 (*Tex.*, Rio Grande City); California Quail, 1027 (*Utah*, Salt Lake City); Gambel's Quail, 155 (*Ariz.*, Santa Catalina Mts.); Mountain Quail, 9 (*Oreg.*, Klamath Falls); Ring-necked Pheasant, 2305 (*S.Dak.*, Sand Lake Refuge); Turkey, 33 (*Okla.*, Wichita Mts. Refuge); Whooping Crane, 20 (*Tex.*, Aransas Refuge); Sandhill Crane, 188 (*Tex.*, Muleshoe Refuge); Limpkin, 7 (*Fla.*, Monroe); King Rail, 20 (*Md.*, Southern Dorchester Co.); Clapper Rail, 92 (*La.*, Grand Isle); Virginia Rail, 5 (*Ala.*, Fairfield); Sora, 15 (*La.*, Sabine Refuge); Yellow Rail, 1 (*Tex.*, Houston); Black Rail, 1 (*R.I.*, Little Compton); Purple Gallinule, 1 (*N.C.*, Wilmington); Florida Gallinule, 34 (*Fla.*, St. Petersburg); Am. Coot, 130,000 (*Tenn.*, Reelfoot Lake).

Am. Oyster-catcher, 131 (*S.C.*, Charleston); Black Oyster-catcher, 4 (*Calif.*, Monterey); Piping Plover, 47 (*Fla.*, St. Petersburg); Snowy Plover, 27 (*Fla.*, St. Petersburg); Semipalmated Plover, 403 (*S.C.*, Charleston); Wilson's Plover, 53 (*Fla.*, St. Augustine); Mountain Plover, 3 (*Calif.*, Orange Co., central and coastal); Killdeer, 355 (*Calif.*, Los Angeles); Black-bellied Plover, 900 (*Calif.*, Oakland); Surf-bird, 31 (*Calif.*, San Francisco); Ruddy Turnstone, 352 (*Fla.*, St. Petersburg); Black Turnstone, 29 (*Calif.*, Monterey); Am. Woodcook, 3 (*Md.*, Ocean City); Wilson's Snipe, 86 (*Tex.*, Harlingen); Long-billed Curlew, 561 (*Tex.*, Laguna Atascosa Refuge); Hudsonian Curlew, 15 (*Calif.*, Orange Co., central and coastal); Spotted Sandpiper, 23 (*Fla.*, St. Petersburg); Wandering Tattler, 1 (*Calif.*, San Diego); Willet, 1022 (*Calif.*, Oakland); Greater Yellow-legs, 59 (*La.*, Sabine Refuge); Lesser Yellow-legs, 31 (*Fla.*, St. Petersburg); Knot, 62 (*Fla.*, Daytona Beach); Purple Sandpiper, 169 (*Mass.*, Cape Ann); Baird's Sandpiper, 2 (*Calif.*, San Diego); Least Sandpiper, 1000 (*Calif.*, San Jose); Curlew Sandpiper, 1 (*Mass.*, Cape Cod); Red-backed Sandpiper, 5916 (*N.J.*, Cape May); Dowitcher, 450 (*La.*, Sabine Refuge); Stilt Sandpiper, 32 (*Tex.*, Laguna Atascosa Refuge); Semipalmated Sandpiper, 500 (*Fla.*, St. Augustine, Jacksonville); Western Sandpiper, 18,973 (*Calif.*, Oakland); Marbled Godwit, 2000 (*Calif.*, Morro Bay); Sanderling, 4000 (*Wash.*, Willapa Refuge); Avocet, 1550 (*Calif.*, San Jose); Black-necked Stilt, 11 (*Tex.*, Rio Grande City).

Parasitic Jaeger, 1 (*Calif.*, Oceanside); Glaucous Gull, 17 (*Que.*, Montreal); Iceland Gull, 16 (*Mass.*, Cape Ann); Glaucous-winged Gull, 4933 (*Oreg.*, Portland); Great Black-backed Gull, 784 (*N.J.*, Long Branch); Western Gull, 682 (*Calif.*, Los Angeles); Herring Gull, 18,942 (*N.Y.*, Western Long Island); California Gull, 2516 (*Calif.*, Los Angeles); Ring-billed Gull, 3000 (*Ky.*, Lower Kentucky Lake); Short-billed Gull, 910 (*Oreg.*, Portland); Black-headed Gull, 2 (*N.Y.*, Manhattan); Laughing Gull, 555 (*Fla.*, Miami); Franklin's Gull, 6 (*Ohio*, Ashtabula); Bonaparte's Gull, 2223 (*N.Y.*, Buffalo); Heermann's Gull, 336 (*Calif.*, Orange Co., central and coastal); Common Kittiwake, 13 (*Mass.*, Cape Ann); Gull-billed Tern, 36 (*Tex.*,

Laguna Atascosa Refuge); Forster's Tern, 660 (*La.*, Grand Isle); Common Tern, 58 (*Fla.*, St. Augustine); Least Tern, 50 (*Fla.*, St. Augustine); Royal Tern, 519 (*Fla.*, St. Petersburg); Cabot's Tern, 30 (*Fla.*, St. Petersburg); Caspian Tern, 37 (*Tex.*, Laguna Atascosa Refuge); Black Tern, 1 (*Fla.*, St. Augustine); Black Skimmer, 1000 (*Fla.*, Jacksonville); Razor-billed Auk, 2 (*R.I.*, South Kingston); Common Murre, 1 (*Oreg.*, Tillamook); Brünnich's Murre, 1 (*Mass.*, Cape Ann); Dovekie, 15 (*Mass.*, Provincetown); Black Guillemot, 2 (*Mass.*, Provincetown, Cape Ann); Pigeon Guillemot, 1 (*Wash.*, Olympia); Ancient Murrelet, 5 (*Calif.*, Monterey); Rhinoceros Auklet, 1 (*Calif.*, Monterey).

Band-tailed Pigeon, 185 (*Calif.*, Pasadena); Red-billed Pigeon, 3 (*Tex.*, Rio Grande City); Rock Dove, 1557 (*N.Y.*, Manhattan); Mourning Dove, 450 (*Calif.*, San Diego); Chinese Spotted Dove, 94 (*Calif.*, Los Angeles); Ringed Turtle Dove, 61 (*Calif.*, Los Angeles); White-winged Dove, 9 (*Fla.*, Key West); Ground Dove, 72 (*Tex.*, Harlingen); Inca Dove, 2 (*Tex.*, Harlingen); White-fronted Dove, 9 (*Tex.*, Harlingen); Black-billed Cuckoo, 1 (*N.C.*, Windom); Road-runner, 5 (*Ariz.*, Tucson, Santa Catalina Mts.; *Tex.*, Rio Grande City); Barn Owl, 5 (*Pa.*, Lancaster); Common Screech Owl, 4 (*Oreg.*, Portland; *Tex.*, Harlingen; *N.Y.*, Southern Nassau County); Horned Owl, 16 (*Wis.*, Mazomanie); Snowy Owl, 26 (*Mass.*, Newburyport); Mountain Pygmy Owl, 1 (*Calif.*, San Jose); Burrowing Owl, 3 (*Tex.*, Harlingen; *Calif.*, Los Angeles, Oakland; *Fla.*, Miami); Barred Owl, 23 (*La.*, St. Francisville); Spotted Owl, 1 (*Calif.*, Pasadena); Long-eared Owl, 18 (*Ind.*, Lafayette); Short-eared Owl, 28 (*Utah*, Ogden); Saw-whet Owl, 2 (*N.Y.*, Croton Point; *Ill.*, Rockford).

Chuck-will's-widow, 1 (*Fla.*, Monroe); Poor-will, 1 (*Calif.*, Los Angeles); Pauraque, 6 (*Tex.*, Harlingen, Laguna Atascosa Refuge); White-throated Swift, 50 (*Calif.*, Pasadena); Ruby-throated Hummingbird, 11 (*Fla.*, Miami); Anna's Hummingbird, 138 (*Calif.*, Los Angeles); Belted Kingfisher, 149 (*Fla.*, Monroe); Green Kingfisher, 14 (*Tex.*, Harlingen); Yellow-shafted Flicker, 183 (*Mass.*, Cape Cod); Red-shafted Flicker, 124 (*Utah*, Salt Lake City); Gilded Flicker, 28 (*Ariz.*, Tucson); Pileated Woodpecker, 18 (*Fla.*, St. Marks); Red-bellied Woodpecker, 56 (*Ill.*, Springfield); Golden-fronted Woodpecker, 93 (*Tex.*, Rio Grande City); Gila Woodpecker, 109 (*Ariz.*, Santa Catalina Mts.); Red-headed Woodpecker, 700 (*Ill.*, Pere Marquette Park); Acorn Woodpecker, 62 (*Calif.*, Pasadena); Lewis's Woodpecker, 10 (*Oreg.*, Eugene); Yellow-bellied Sapsucker, 22 (*Tex.*, Fort Worth); Williamson's Sapsucker, 2 (*Calif.*, Big Bear Lake); Hairy Woodpecker, 35 (*Conn.*, Hartford); Downy Woodpecker, 162 (*Ohio*, Cincinnati); Ladder-backed Woodpecker, 44 (*Tex.*, Rio Grande City); Nuttall's Woodpecker, 4 (*Calif.*, Pasadena); Arizona Woodpecker, 2 (*Ariz.*, Santa Catalina Mts.); Red-cockaded Woodpecker, 14 (*S.C.*, Charleston); White-headed Woodpecker, 4 (*Calif.*, Pasadena).

Eastern Kingbird, 1 (*Fla.*, Miami); Mexican Kingbird, 18 (*Tex.*, Harlingen); Western Kingbird, 2 (*Fla.*, Monroe); Cassin's Kingbird, 2 (*Calif.*, San Diego); Derby Flycatcher, 39 (*Tex.*, Harlingen); Crested Flycatcher, 14 (*Fla.*, Monroe); Ash-throated Flycatcher, 10 (*Calif.*, Los Angeles); Eastern Phoebe, 87 (*Tex.*, Harlingen); Black Phoebe, 133 (*Calif.*, Los Angeles); Say's Phoebe, 22 (*Ariz.*, Tucson); Eastern Wood Pewee, 1 (*S.C.*, Charlestown); Vermilion Flycatcher, 33 (*Tex.*, Harlingen); Beardless Flycatcher, 1 (*Tex.*, Harlingen); Horned Lark, 1200 (*Nebr.*, Crescent Lake Refuge); Violet-green Swallow, 3 (*Calif.*, Bakersfield); Tree Swallow, 659 (*Fla.*, Miami); Rough-winged Swallow, 12 (*Tex.*, Houston).

Canada Jay, 4 (*Wyom.*, Grand Teton); Blue Jay, 352 (*Tenn.*, Memphis); Steller's Jay, 117 (*Calif.*, Yosemite); Scrub Jay, 199 (*Calif.*, Los Angeles); Arizona Jay, 66 (*Ariz.*, Santa Catalina Mts.); Green Jay, 67 (*Tex.*, Rio Grande City); Am. Magpie, 360 (*Wyom.*, Casper); Yellow-billed Magpie, 54 (*Calif.*, Sacramento); Common Raven, 43 (*N.Mex.*, Santa Fe); White-necked Raven, 123 (*Tex.*, Brownsville); Am. Crow, 20,000 (*Pa.*, Allentown); Fish Crow, 1469 (*Fla.*, Daytona Beach); Piñon Jay, 20 (*Colo.*, Durango); Clark's Nutcracker, 37 (*Wash.*, Spokane).

Black-capped Chickadee, 808 (*Mass.*, Cape Cod); Carolina Chickadee, 360 (*D.C.*, Washington); Mountain Chickadee, 43 (*Calif.*, Big Bear Lake); Brown-capped Chickadee, 2 (*N.H.*, Dummer); Chestnut-backed Chickadee, 161 (*Calif.*, San Francisco); Tufted Titmouse, 288 (*D.C.*, Washington); Black-crested Titmouse, 45 (*Tex.*, Rio Grande City); Plain Titmouse, 38 (*Calif.*, Oakland); Bridled Titmouse, 12 (*Ariz.*, Santa Catalina Mts.), Verdin, 45 (*Ariz.*, Santa Catalina Mts.); Bush-tit, 265 (*Calif.*, Los Angeles); White-breasted Nuthatch, 139 (*D.C.*, Washington); Red-breasted Nuthatch, 175 (*Tenn.*, Great Smoky Mts.); Brown headed Nuthatch, 142 (*N.C.*, Washington); Pygmy Nuthatch, 158 (*Wash.*, Spokane); Brown Creeper, 52 (*Calif.*, Yosemite; *Ohio*, Sugar Grove).

Wren-tit, 342 (*Calif.*, Los Angeles); Dipper, 14 (*Colo.*, Lyons); House Wren, 45 (*Fla.*, Miami); Winter Wren, 20 (*Va.*, Blacksburg); Bewick's Wren, 36 (*Tex.*, Concan); Carolina Wren, 193 (*Ohio*, Cincinnati); Cactus Wren, 68 (*Ariz.*, Santa Catalina Mts.); Long-billed Marsh Wren, 34 (*Md.*, Southern Dorchester Co.); Short-billed Marsh Wren 30 (*Md.*, Southern Dorchester Co.); Cañon Wren, 14 (*Ariz.*, Santa Catalina Mts.); Rock Wren, 24 (*Ariz.*, Santa Catalina Mts.); Mockingbird, 270 (*Fla.*, St. Petersburg); Catbird, 23 (*Fla.*, Monroe); Brown Thrasher, 73 (*La.*, St. Francisville); Sennett's Thrasher, 24 (*Tex.*, Harlingen); Bendire's Thrasher, 8 (*Ariz.*, Tucson); Curve-billed Thrasher, 73 (*Ariz.*, Santa Catalina Mts.); California Thrasher, 84 (*Calif.*, Los Angeles); Crissal Thrasher, 31 (*Ariz.*, Tucson); Sage Thrasher, 16 (*Tex.*, Big Spring).

Robin, 10,000 (*Tenn.*, Nashville); Varied Thrush, 80 (*Oreg.*, Portland); Wood Thrush, 1 (*Tex.*, Houston); Hermit Thrush, 38 (*Fla.*, Tallahassee);

Gray-cheeked Thrush, 1 (*Ala.*, Birmingham); Eastern Bluebird, 416 (*Mass.*, Cape Cod); Western Bluebird, 325 (*Calif.*, Palm Springs); Mountain Bluebird, 46 (*N.Mex.*, Santa Fe); Townsend's Solitaire, 20 (*Oreg.*, Klamath Falls); Blue-gray Gnatcatcher, 125 (*Fla.*, Monroe); Plumbeous Gnatcatcher, 32 (*Ariz.*, Havasu Lake Refuge); Golden-crowned Kinglet, 152 (*Oreg.*, Portland); Ruby-crowned Kinglet, 177 (*La.*, St. Francisville); Am. Pipit, 555 (*Calif.*, Oakland); Sprague's Pipit, 3 (*Tex.*, Rockport, Laguna Atascosa Refuge); Bohemian Waxwing, 2140 (*Utah*, Salt Lake City); Cedar Waxwing, 476 (*Utah*, Salt Lake City); Phainopepla, 49 (*Ariz.*, Santa Catalina Mts.); Northern Shrike, 7 (*N.Y.*, Amagansett, L.I.; *Mass.*, Newburyport); Loggerhead Shrike, 111 (*Tex.*, Harlingen); Starling, 250,000 (Nashville).

White-eyed Vireo, 25 (*Tex.*, Harlingen); Hutton's Vireo, 12 (*Calif.*, Monterey); Gray Vireo, 1 (*Ariz.*, Tucson); Solitary Vireo, 10 (*S.C.*, Charleston); Black and White Warbler, 12 (*Fla.*, Monroe); Orange-crowned Warbler, 23 (*Tex.*, Harlingen); Nashville Warbler, 5 (*Tex.*, Harlingen); Parula Warbler, 2 (*Fla.*, St. Augustine, Monroe); Sennett's Warbler, 1 (*Tex.*, Harlingen); Yellow Warbler, 1 (*Tex.*, Harlingen); Magnolia Warbler, 1 (*Fla.*, Gainesville); Cape May Warbler, 1 (*Va.*, Back Bay Refuge); Myrtle Warbler, 4785 (*N.J.*, Cape May); Audubon's Warbler, 1150 (*Calif.*, San Diego); Black-throated Gray Warbler, 1 (*Tex.*, Harlingen); Townsend's Warbler, 9 (*Calif.*, Monterey); Black-throated Green Warbler, 6 (*Tex.*, Harlingen); Yellow-throated Warbler, 8 (*Fla.*, Pensacola); Pine Warbler, 64 (*S.C.*, Charleston); Prairie Warbler, 16 (*Fla.*, Miami); Palm Warbler, 525 (*Fla.*, St. Petersburg); Oven-bird, 4 (*Fla.*, Miami); Northern Water-thrush, 2 (*Fla.*, Monroe, Miami); Kentucky Warbler, 1 (*Tex.*, Brownsville); Yellow-throat, 102 (*Tex.*, Harlingen); Yellow-breasted Chat, 1 (*Mass.*, Cape Cod; *Calif.*, Pasadena); Black-capped Warbler, 2 (*Calif.*, Pasadena).

English Sparrow, 7654 (*Utah*, Salt Lake City); European Tree Sparrow, 10 (*Ill.*, East St. Louis); Eastern Meadowlark, 533 (*Ala.*, Birmingham); Western Meadowlark, 112 (*Calif.*, San Jose); Yellow-headed Blackbird, 1200 (*N.Mex.*, Bosque Refuge); Red-wing, 630,000 (*Md.*, Susquehanna Flats); Tricolored Blackbird, 621 (*Calif.*, Monterey); Orchard Oriole, 1 (*N.C.*, Greenville); Audubon's Oriole, 16 (*Tex.*, Rio Grande City); Hooded Oriole, 2 (*Tex.*, Harlingen); Baltimore Oriole, 1 (*N.C.*, Greensboro; *Fla.*, Tallahassee); Rusty Blackbird, 1225 (*Okla.*, Tulsa); Brewer's Blackbird, 12,000 (*Tex.*, Houston); Boat-tailed Grackle, 2375 (*La.*, Grand Isle); Purple Grackle, 70,000 (*Md.*, Susquehanna Flats); Brown-headed Cowbird, 15,000 (*Tex.*, Houston); Red-eyed Cowbird, 19 (*Tex.*, Harlingen); Western Tanager, 1 (*Mass.*, Cape Cod); Summer Tanager, 2 (*Tex.*, Harlingen).

Cardinal, 750 (*Ill.*, Pere Marquette Park). Pyrrhuloxia, 65 (*Tex.*, Rio Grande City); Black-headed Grosbeak, 1 (*Calif.*, Los Angeles); Painted Bunting, 31 (*Fla.*, Miami); Dickcissel, 4 (*Tex.*, Houston); Evening Grosbeak, 121 (*N.Y.*, Saranac Lake); Purple Finch, 186 (*Ala.*, Birmingham); Cassin's Finch, 15 (*Col.*, Durango); House Finch, 2340 (*Calif.*, Los Angeles); Sharpe's Seedeater, 92 (*Tex.*, Harlingen); Pine Grosbeak, 61 (*N.Y.*, Rensselaerville); Gray-crowned Rosy Finch, 77 (*Wyom.*, Casper); Black Rosy Finch, 17 (*Utah*, Salt Lake City); Common Redpoll, 300 (*Mich.*, Vanderbilt); Pine Siskin, 1570 (*Utah*, Salt Lake City); Am. Goldfinch, 1153 (*Utah*, Salt Lake City); Arkansas Goldfinch, 288 (*Calif.*, San Jose); Lawrence's Goldfinch, 1 (*Calif.*, Pasadena, Pauma Valley); Red Crossbill, 19 (*Oreg.*, Eugene); White-winged Crossbill, 102 (*Me.*, Brunswick).

Texas Sparrow, 51 (*Tex.*, Harlingen); Green-tailed Towhee, 15 (*Ariz.*, Tucson); Eastern Towhee, 329 (*S.C.*, Charleston); Spotted Towhee, 95 (*Oreg.*, Portland); Brown Towhee, 341 (*Calif.*, Los Angeles); Abert's Towhee, 36 (*Ariz.*, Tucson); Lark Bunting, 746 (*Tex.*, Midland); Ipswich Sparrow, 10 (*Mass.*, Cape Cod); Savannah Sparrow, 318 (*Tex.*, Harlingen); Grasshopper Sparrow, 11 (*Tex.*, Laguna Atascosa Refuge); Baird's Sparrow, 6 (*Tex.*, El Paso); Leconte's Sparrow, 4 (*Kans.*, Lawrence); Henslow's Sparrow, 4 (*N.C.*, Wilmington); Sharp-tailed Sparrow, 12 (*N.J.*, Cape May; *Fla.*, St. Augustine); Seaside Sparrow, 14 (*S.C.*, Charleston); Vesper Sparrow, 57 (*La.*, St. Francisville); Lark Sparrow, 200 (*Tex.*, Harlingen; *Calif.*, Malibu); Rufous-winged Sparrow, 1 (*Ariz.*, Tucson); Rufous-crowned Sparrow, 13 (*Ariz.*, Santa Catalina Mts.); Pine-woods Sparrow, 6 (*Fla.*, Tallahassee); Black-throated Sparrow, 123 (*Tex.*, Rio Grande City); Sage Sparrow, 7 (*Ariz.*, Havasu Lake Refuge); White-winged Junco, 8 (*Colo.*, Sterling); Slate-colored Junco, 1435 (*N.C.*, Greensboro); Oregon Junco, 1211 (*Oreg.*, Portland); Gray-headed Junco, 500 (*Colo.*, Durango); Arizona Junco, 58 (*Ariz.*, Santa Catalina Mts.); Tree Sparrow, 1464 (*N.J.*, Boonton); Chipping Sparrow, 251 (*Ariz.*, Santa Catalina Mts.); Clay-colored Sparrow, 24 (*Tex.*, Rio Grande City); Brewer's Sparrow, 121 (*Tex.*, El Paso); Field Sparrow, 356 (*N.C.*, Greensboro); Black-chinned Sparrow, 6 (*Ariz.*, Santa Catalina Mts.); Harris's Sparrow, 280 (*Okla.*, Salt Plains Refuge); White-crowned Sparrow, 930 (*Calif.*, San Jose); Golden-crowned Sparrow, 301 (*Calif*, Monterey); White-throated Sparrow, 1379 (*Tenn.*, Memphis); Fox Sparrow, 47 (*Tenn.*, Memphis); Lincoln's Sparrow, 76 (*Tex.*, Harlingen); Swamp Sparrow, 216 (*Md.*, Ocean City); Song Sparrow, 657 (*Oreg.*, Portland); Lapland Longspur, 250 (*Ill.*, East St. Louis); Chestnut-collared Longspur, 100 (*S.Dak.*, Sioux Falls); Snow Bunting, 5000 (*N.Dak.*, Des Lacs Refuge).

Instructions for Making Bird Population Studies

Christmas Bird Count

The purpose of this study is to obtain information on species distribution and abundance during the early winter period. Start early in making plans for your Christmas Count. If you are setting up a new area, obtain topographic maps of the area if possible, and draw in a circle of 15-mile *diameter* which will include as many as possible of the representative habitats and favorable locations. By making a careful selection the first year, an area can be covered in a uniform way over a long period of years. Whether your area is new or old, make one or more scouting trips previous to the day of the count so you will know how best to spend your time during the count, giving sufficient time for each habitat. Beginners and people not familiar with the area should participate as companions to more experienced observers.

Dates.—All counts must be made during the prescribed period, as announced each year in *Audubon Field Notes* and *Audubon Magazine*. A count must not cover more than one calendar day. Reports must be received at the National Audubon Society, 1000 Fifth Avenue, New York 28, N. Y., by the announced deadline.

Habitat.—Particular care should be taken to describe exactly the habitats worked in, as this information is extremely important in evaluating the species counts in a comparative sense. Amount of each habitat should be given in terms of percentage of total party-hours spent in each. Examples of correctly distinguished habitats are given under Breeding-Bird Census directions.

Weather.—As weather conditions can greatly affect the results obtained, give a brief report of sky condition, precipitation, minimum and maximum temperature, wind direction and velocity, and ground and water conditions, in that order.

Coverage.—Dawn-to-dusk counts are preferred, and those of less than 7 hours duration cannot be accepted.

Only one census will be published from any one general area unless evidence is submitted to show that there is *no overlapping* and that the counts *could not be combined* without exceeding the 15-mile diameter.

The Report.—All reports should be *typed* if possible, *double-spaced,* and on one side of the paper only. Margins of approximately 1½ inches should be left on each side, and splitting of words at the end of a line should be avoided as much as possible.

So that more use may be made of estimated numbers of a species it is requested that observers indicate their accuracy in the following way: Canvasback, 43,870 (42,000±1000, 1870). This shows that of the total number of Canvas-backs reported (43,870), 1870 were actually counted, and the remainder (probably between 41,000 and 43,000) were estimated. Observers who do not feel that they can estimate the degree of accuracy of their estimates, may give their results as follows, indicating what part of the total figure is made up of estimates, and what part of exact counts: Canvasback, 43,870 (42,000 est., 1870). Even when large estimates are involved, totals at the end of each list should *not* be rounded off; insertion of the word "about" will indicate that the total includes an estimate; *e.g.*, Total, 62 species; about 255,557 individuals.

All birds should be listed in the order in which they appear in the latest edition of the A.O.U. Check-List, in Peterson's Field Guides, and the Audubon Daily Field Cards. It is requested that the species names used should follow these books except as modified in *Audubon Field Notes*, Vol. 4, No. 1, 1950, pp. 37-39. All common species names should begin with capital letters.

Species like the Common Pigeon or Rock Dove which have gone wild from domestic stock should not be included.

Attempts to identify birds as to subspecies are discouraged because of the great chance of error. In the few cases where it is considered desirable, subspecies names should be listed after the species name in parentheses and not counted as additional species, *e.g.*, Palm Warbler (Western).

Birds whose occurrence or abundance is of very special interest may be underscored with a wavy line to indicate boldface type. Out of fairness to all observers the following uniform procedure will be adopted. Boldface type may be used to indicate (1) a species not previously recorded in a census which has been taken for 5 or more years; (2) an unusually high count if 10 per cent higher than the highest recorded in 10 years in the same area; (3) any count at least two-thirds as high as the highest reported for that species in the most recent summary of highest counts of individuals. Other birds believed to deserve special emphasis may be mentioned in a separate note to the editor, but should not be marked on the manuscript. No bird which is questioned by the editor because insufficient details were furnished will be printed in boldface.

Mistakes in addition are found in a large proportion of the counts; in some cases this results from typographical errors or from the omission of one or more species in the final typing, even though the addition may have been correct in the original copy. Please check carefully to see that

both the number of species and the number of individuals are added correctly on the final copy.

The names of *all* participants should be listed in alphabetical order at the end of the count. In the event that correspondence concerning the report is necessary, the *name* and *address* of the person submitting it should be included without fail. A record *on a separate sheet of paper,* of the full names and addresses of all participants is also requested.

The entire report should be written as a *single* paragraph, and should follow closely the form of the sample count below. The editors reserve the right to reject or return for rewriting, any manuscripts which do not comply with all requirements.

Sample Report.—Johnsville, N. Y. (7½-mile radius centering on 4th and Main Sts., and including Long Lake area, Clear Creek as far as Clayton, Sound shore from Point Key to Dover: pasture 25%, plowed land 25%, town suburbs 10%, deciduous farm woodlots 20%, hemlock groves 5%, cattail marsh 15%).—Dec. 25; 7:10 a.m. to 5 p.m. Clear; temp. 2° to 15°; wind ENE to W, 8-12 m.p.h.; ground covered with 2-4 inches crusted snow; all fresh water frozen except parts of Clear Creek. Five observers in 5 parties. Total party-hours, 36 (27 on foot, 8 by car, 1 in rowboat); total party-miles, 298 (53 on foot, 242 by car, 3 by boat). Brant, 5; scaup (sp.), 1145; Am. Goldeneye, 2; Buffle-head, 1; Ring-necked Pheasant, 2; Herring Gull, 8865 (7300±500, 1569); Horned Lark, 48 (including 6 northern—yellow line over eye seen distinctly by H.R.B.); Black-capped Chickadee, 27; Carolina Chickadee, 1 (seen and heard at close range in direct comparison with other chickadees—J.F.J.); Palm Warbler, 3 (Western, 2; Yellow, 1). Total, 10 species (1 additional subspecies); about 10,103 individuals. (Seen in area Dec. 24; Common Redpoll, 7.)—H. R. Bass, J. F. Jones (compiler), A. J. Kelly, L. P. Taylor, S. H. Smith (Long Island Bird Club).

Winter Bird-Population Study

The principal objective of the Winter Bird-population Study is to determine the average number of birds occurring in a measured area of a certain type of habitat. This average number may be obtained for each species by making a number of census trips on the study area, determining as nearly as possible the exact number of birds present on each trip, and then calculating the average number recorded per trip. One of the difficulties that may be encountered in this method is in being sure that all of the birds present on each trip have been recorded only once. Most birds move around rather freely in the winter contributing to this difficulty.

Selection of area is the same as for the Breeding Bird Census.

Manner of Counting—(1) Make a map of the area showing all conspicuous landmarks for the easy orientation of observations.

(2) At least 6 census trips (preferably more) should be conducted from December 20 to February 10.

(3) The area should be thoroughly covered by following a definite route on each trip in such a way that all or practically all of the birds on the area are recorded. Where hedgerows and open fields are involved, a good method is to drive the birds by a given point, where they can be counted as they pass; to be most effective this involves the participation of two or more observers.

(4) The position of all birds recorded on each trip should be marked on a copy of the map of the area.

(5) From your experience with the position and movements of the birds, determine as accurately as possible the number of each species present on each trip.

(6) For each species compute the average number of birds recorded per trip by dividing the total number recorded on all trips by the number of trips; round off this figure to the nearest whole number. If the average is less than .5 a plus (+) sign should be used instead of a figure.

(7) The population density for each species (theoretical number per 100 acres) should be calculated to the nearest whole number by multiplying the average number times 100, and dividing the result by the number of acres in the area.

Precautions.—Census trips should be made during favorable weather. In order to avoid a density of birds that would be both artificial and too high, there should be no kind of winter feeding by man within the area. Even if there is any artificial feeding of birds adjacent to the area, the population within the study tract may be influenced, and the census taker should state the location of all known nearby feeders. Be sure that the area includes only one type of habitat. If two habitats are present work out a separate census for each on an acreage basis of the habitat represented and the number of birds present in each ecological type.

For reports, maps and supplementary information see "Reports" under Breeding Bird Census.

Significant climatic data such as extreme temperatures, heavy snowfall, etc., should be described under "Remarks."

Model Census.—Below is an example of the form in which the report should appear:

Bottomland Deciduous Forest. Location: Patuxent Research Refuge, Laurel, Maryland. Size: 75 acres. Description of Area: A fairly mature second-growth forest area, roughly rectangular in shape and covering the well-drained portion of the flood plain of the Patuxent River which cuts through

the tract. The dominant trees average about 80 feet in height and about 1½ feet DBH (diameter breast high). The dominant trees in the order of their decreasing abundance are: River Birch (*Betula nigra*), Hornbeam (*Carpinus caroliniana*), Beech (*Fagus grandifolia*), Pin Oak (*Quercus palustris*), and Red Maple (*Acer rubrum*). A fairly distinct understory is present within the greater part of the forest and includes such species as Blackhaw (*Viburnum prunifolium*) and Spicebush (*Benzoin aestivale*). Names of plants are taken from Gray's Manual. Topography: Level floodplain; elevation, 140 feet. Edge: Area surrounded by similar habitat. Coverage: Dec. 25, 29; Jan. 3, 7, 10, 15, 20, 27; Feb. 5. Total, 9 trips, averaging 3 hours each. Census: Slate-colored Junco, 33 (44); Myrtle Warbler, 8 (11); Am. Goldfinch, 8 (11); Tufted Titmouse, 7 (9); Golden-crowned Kinglet, 7 (9); Downy Woodpecker, 4 (5); Carolina Chickadee, 4 (5); Brown Creeper, 2 (3); Red-headed Woodpecker, 1 (1); Barred Owl, +; Winter Wren, +. Average Total: 74 birds (density, 91 birds per 100 acres). Remarks: The Tufted Titmouse, Carolina Chickadee, Downy Woodpecker, Brown Creeper, and Golden-crowned Kinglet frequently occurred in mixed flocks. Slate-colored Juncos and Am. Goldfinches usually occurred in single-species flocks. Abundance of Poison Ivy fruit probably accounted for the unusually high number of Myrtle Warblers. The figure for Barred Owls is probably low, since all censuses were made during the daytime. The Red-headed Woodpecker was restricted to an area less than an acre in size that contained many dead trees. During the census period the temperature ranged from 11° to 61° with a daily mean of 34°. The ground was covered with a maximum of 5 inches of snow during 6 days of census period. The mast and winter fruit crop in the area were above normal.—John White, Laurel, Md.

Breeding-Bird Census

The primary purpose of the Breeding Bird Censuses is to determine the populations of breeding birds occurring in the various habitat types throughout North America.

Selection of Area.—*Uniform habitats typical of large regions are particularly wanted.* They should be easily recognized, and *clearly described.* At least one-half the value of each count will lie in the care with which the study tract is chosen. Virgin or climax habitats such as original prairie and virgin timber, or relict areas such as certain bogs, should have priority over all others since most of these are now rare or are fast disappearing and therefore should be censused before it is too late. If the observer is interested in determining annual fluctuations in bird populations, not directly caused by plant succession or by changes due to man, it is necessary to select habitats of this type which are mature and therefore relatively stable. It is also desirable to determine the bird populations in the various stages of plant succession which precede the natural climax or mature habitats. Many of these stages are represented in habitats which are quite transitory in character so that it is possible to census them for only one or two years before major changes take place. Artificial or man-made habitats such as agricultural fields and orchards, all have characteristic bird populations and are well worth censusing.

The study area should, so far as possible, be restricted to a single uniform environmental type. Examples of distinct habitat are: upland deciduous forest, upland coniferous forest, bottomland deciduous forest, plowed field, shrubby field, grassy field, fresh-water pond, brackish marsh, shrubby swamp, sand dunes, and beach. Censuses should be taken on contiguous tracts of preferably *not less than 15 acres.* Decisions as to the best size can be based on: (1) the extent of uniform habitat available; (2) the man-power and time obtainable for observation; (3) the observational difficulties presented by the density of cover. Thirty acres of heavy forest are quite as much as the average beginner can census alone on week-ends throughout the season. Where possible, the study area should be well within (near center or 100 yards or more from margin) a much larger area of the same habitat so that the edge effect can be reduced.

Manner of Counting.—The bird population of any given habitat should be based on the *number of territorial males* rather than the number of pairs. The reason for this is that ordinarily the number of breeding females cannot be accurately determined without a great deal of intensive study involving much more time than is usually spent in conducting general censuses of any given habitat. *Unmated territorial males, monogamous territorial males and polygamous territorial males* should all be counted the same way. However, any definite information that is obtained on the true "marital" status of the males or the number of females present should be given under "Remarks" following the census totals.

Counts should be conducted by accurately recording on a map of the study area, the location of all birds seen or heard. The simplest method is to lay out north-south and east-west lines that are 148, 209, 256, 295, or 330 ft. apart; these will create a grid subdividing the area into ½, 1, 1½, 2, or 2½-acre units, respectively. The choice of the distance between lines should be a matter of personal judgment depending on the field ability of the observer, and on the type of cover to be censused. These grid lines are easily laid out any time before the leaves come out by using a compass with a rope or tape, or simply by pacing.

Colored stakes, pieces of cloth, or paint on trees can be used to mark the lines and their intersections. A different field map should be used on each Census trip. The field data should be transposed on species maps after the census taker returns indoors. In doing this the records from different trips should be indicated by different colors or by dates. A special attempt should be made to *record the locations of males that are singing simultaneously,* as this type of record is more useful than any other in helping to delimit the territories. Such records can be indicated on the field map by drawing arrows pointing toward each other from dots representing simultaneously singing males. When numerous records of this type have been obtained it is usually a simple matter to outline the territories. Locating nests is often very helpful in determining the number of territories present, especially for wide-ranging species or for species in which the songs and call notes of the male and female are similar.

The number of territorial males in the study area is based on the number of occupied territories. In counting the number of occupied territories it is noted that frequently only part of a male's territory is within a study area. In this case only the fraction of the territory that is on the area should be counted. The total number of territories for each species in the study area should be taken to the nearest half. If the total number, for any species, is less than 1/4, it should be indicated by a plus (+) sign instead of a number. The density of males per 100 acres of habitat should also be calculated for each species *with three or more territories* on the study area. This figure should be computed to the nearest whole number. Birds that are not on territories, but which are occasionally found on the area, should be listed as *Visitors,* with the average number (nearest whole number) of *individuals* per 100 acres, indicated for each species.

Times of the Census.—The dates on which counts are to be taken obviously vary according to geographical location and species. Most species are usually at the peak of their nesting activities during late May and June in the northern states. *At least* eight different counts should be taken. Although the most productive days will be those when the majority of birds are building their nests or feeding young that have not yet flown, the nature of the time spent afield is as important as the number of days the area is visited. Cruises over a tract between 6 and 10 a.m. will, in some habitats, show about a 50 to 75 per cent efficiency in recording certain species. Where necessary, two night visits should be made to check for owls, woodcock, and goatsuckers. Thrushes are most easily censused at sundown because of the frequency of singing at that time.

Incorporated in each new census should be the common and scientific names of the dominant plants within the area, together with the name of the authority used as a source.

Species of birds with males occupying territories in the study area should be listed *in order of decreasing abundance.* Species with the same population density may be listed in the order of classification. The number of territorial males in the study area should follow the name of the species and this in turn should be followed by the density figure (number of males per 100 acres) in parentheses, if there are more than three territories on the area.

Reports should be typed, if possible, double-spaced, and on one side of the paper only. Submit reports as a single paragraph, underlining nothing except scientific names. The common names of birds and plants should be capitalized. It is hoped to print censuses in tabular form at 5-year intervals to show average populations and yearly variations, but this must depend on the discretion of the census editor and the amount of space available for the reports in a given year.

Model Census.—The model census that follows is a purely synthetic one that has been designed to include the more important data on factors perceptibly influencing the character and density of bird populations. *Each census taker should follow the form closely* in the style and order of information presented, and wherever possible, endeavor to give the same kind of information.

Upland Oak-Hickory Forest. Location: 3 miles east of Naghuna, Illinois. Size: 30 acres (rectangular, 330 x 440 yards paced). Description of Area: Forest crown somewhat open with a substratum of shrubs averaging 8 feet in height; typical woodland of southern Illinois; trees average about 50 feet in height, and about 1 foot DBH (diameter breast high); 50% White Oak (*Quercus alba*), 30% Black Oak (*Q. velutina*), 20% Pignut Hickory (*Carya glabra*). Scientific names of plants taken from Gray's Manual. Edge: Tract bounded on all sides by similar forest. Topography: Rolling hills; elevation 450 to 500 feet. Coverage: April 10, 16; May 8, 11, 25, 27, 30; June 2, 5, 9, 12, 15; July 10, 20. Hours varied from 5:30 a.m. to 10 p.m. and totaled 53 man-hours. Census: Red-eyed Vireo, 6.5 (22); Summer Tanager, 3 (10); Red-bellied Woodpecker, 2; Hooded Warbler, 1.5; Eastern Wood Pewee, 1; Blue Jay, .5; Cooper's Hawk, +. Total: 7 species; 14.5 territorial males (48 males per 100 acres). Visitors (average number of individuals per 100 acres); Starling, 5; Robin, 3; Remarks: The Hooded Warblers were restricted to the portion of the area with a fairly dense understory of Spicebush (*Benzoin aestivale*). The Red-eyed Vireo population shows a marked reduction from last year, dropping from 11 to 6.5 territories. The absence of Barred Owls this year was probably due to an increased amount of hunting in the area last winter.—George J. Stone, Centerville, Ill.

Supplementary Information.—Because of the great lack of information on the subject, all census contributors are urged to give facts, under the heading of "Remarks" in their report, on the niche requirements of a species within a given habitat. Any information on variable population densities that may be correlated with minor changes within

the habitat should be included. Data on the size of territories are desirable. Unusual numbers or any abrupt yearly change in population should also be explained, if possible. Census takers are urged to include photographs illustrating their study tracts; where space permits some of these will be reproduced in *Audubon Field Notes*.

Maps.—Each census should be accompanied by one or more maps, showing boundaries of the study area, adjoining environment, scale, nests, centers of occupied territories, direction of north and enough landmarks so that the tract may be readily found by some other person wishing to census it in the future. Abbreviations should be used to indicate the occurrence of each species of bird on the map.

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342. Galveston, Tex. (Galveston Island from east end to a point 15 miles down the island; bays, sandy Gulf beach, wet pastures, cattail marshes, prairie ponds, tamarisk thickets).—Dec. 27; 10 a.m. to 5 p.m. Overcast, fog and light showers in a.m.; temp. 60° at start, 51° at finish; wind N, 5-8 m.p.h. Four observers together. Total party-miles, 56 (52 by car, 4 on foot); total party-hours, 7. Common Loon, 13; Horned Grebe, 1 (studied at leisure as it rode just beyond surf at 60 yds.; 10X glasses; distinct white cheek-patches and crested head noted); Least Grebe, 4 (well identified by party, all familiar with species farther south; a northward invasion this winter); Pied-billed Grebe, 48; White Pelican, 3; Brown Pelican, 318; Double-crested Cormorant, 25; Great Blue Heron, 14; Am. Egret, 21; Snowy Egret, 26; Louisiana Heron, 9; Little Blue Heron, 2; Am. Bittern, 1; Snow Goose (Lesser), 164; Blue Goose, 408; Mallard, 6; Pintail, 25; Lesser Scaup Duck, 81; Ruddy Duck, 30; Red-tailed Hawk, 1; Marsh Hawk, 9; Sparrow Hawk, 11; Am. Coot, 45; Snowy Plover, 10; Killdeer, 13; Semipalmated Plover, 7; Black-bellied Plover, 29; Ruddy Turnstone, 21; Long-billed Curlew, 34; Hudsonian Curlew, 1 (striped crown and white eye-stripe well noted as it fed beside Long-billed Curlews); Spotted Sandpiper, 1; Willet, 6; Greater Yellow-legs, 2; Lesser Yellow-legs, 2; Least Sandpiper, 2; Red-backed Sandpiper, 215; Dowitcher, 11; Semipalmated Sandpiper, 5; Western Sandpiper, 150; Marbled Godwit, 2; Sanderling, 83; Herring Gull, 87; Ring-billed Gull, 672; Laughling Gull, 374; Gull-billed Tern, 12; Forster's Tern, 6; Royal Tern, 62; Caspian Tern, 5; Short-eared Owl, 1; Belted Kingfisher, 7; Yellow-shafted Flicker, 1; Horned Lark, 20; Tree Swallow, 2; Short-billed Marsh Wren, 3; Mockingbird, 7; Robin, 2; Am. Pipit, 208; Loggerhead Shrike (including Loggerhead and White-rumped), 18; Starling, 11; Myrtle Warbler, 4; Yellow-throat, 2; English Sparrow, 41; Eastern Meadowlark, 78; Red-wing, 159; Brewer's Blackbird, 367; Boat-tailed Grackle, 9; Brown-headed Cowbird, 1; Cardinal, 1; Savannah Sparrow, 9; Seaside Sparrow, 3; Song Sparrow, 1. **Total,** 71 species; 4062 individuals.—J. M. Heiser, J. Webster, G. Williams, S. Williams

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Preliminary Bibliography of Articles Based on Christmas Bird Counts

The following references should be useful to persons interested in preparing summaries or analyses of Christmas Counts:

BARLOW, JAMES H. 1948. Two decades of the Christmas Census. *Goshawk*, 1 (1): 6-10.

HICKS, LAWRENCE E., and FLOYD CHAPMAN. 1933. A statistical survey of Ohio winter bird life. *Ohio Journ. Sci.*, 33 (2): 135-150.

PERKINS, E. H. 1914. Some results of Bird-Lore's Christmas Bird Censuses. *Bird-Lore*, 16 (1): 13-18.

ROBBINS, SAMUEL D., JR. 1942. Christmas Bird Counts near Madison. *Passenger Pigeon*, 4 (3): 79-81.

SCHRODER, HUGO H. 1942. Christmas Censuses. *Fla. Nat.*, 16 (1): 1-5.

TERRILL, L. McI. 1949. Summary of Christmas Bird Censuses 1935-1948. *P. Q. Soc. for Protection of Birds, Ann. Rept.* for year ending Dec. 31, 1948: 10-15.

TRAUTMAN, MILTON B. [about 1944]. The Buckeye Lake Christmas Bird Counts. [*Wheaton Club Bull.*] 10 p. (mimeo.).

WING, LEONARD. 1941. Size of bird flocks in winter. *Auk*, 58 (2): 188-194.

WING, LEONARD. 1942. Birds of the Florida Christmas Census. *Fla. Nat.*, 16 (1): 6-11.

WING, LEONARD. 1942. A forty-year summary of the Wisconsin Christmas Bird Censuses. *Passenger Pigeon*, 4 (3): 77-79.

WING, LEONARD. 1942. Summary of Michigan Christmas Census. *Jack-Pine Warbler*, 20 (3): 75.

WING, LEONARD. 1943. New Hampshire and Vermont Christmas Birds. *Aud. Soc. N. H. Bull.*, 14 (1): 3-7.

WING, LEONARD. 1943. Relative distribution of Mallard and Black Duck in winter. *Auk*, 60 (3): 138-139.

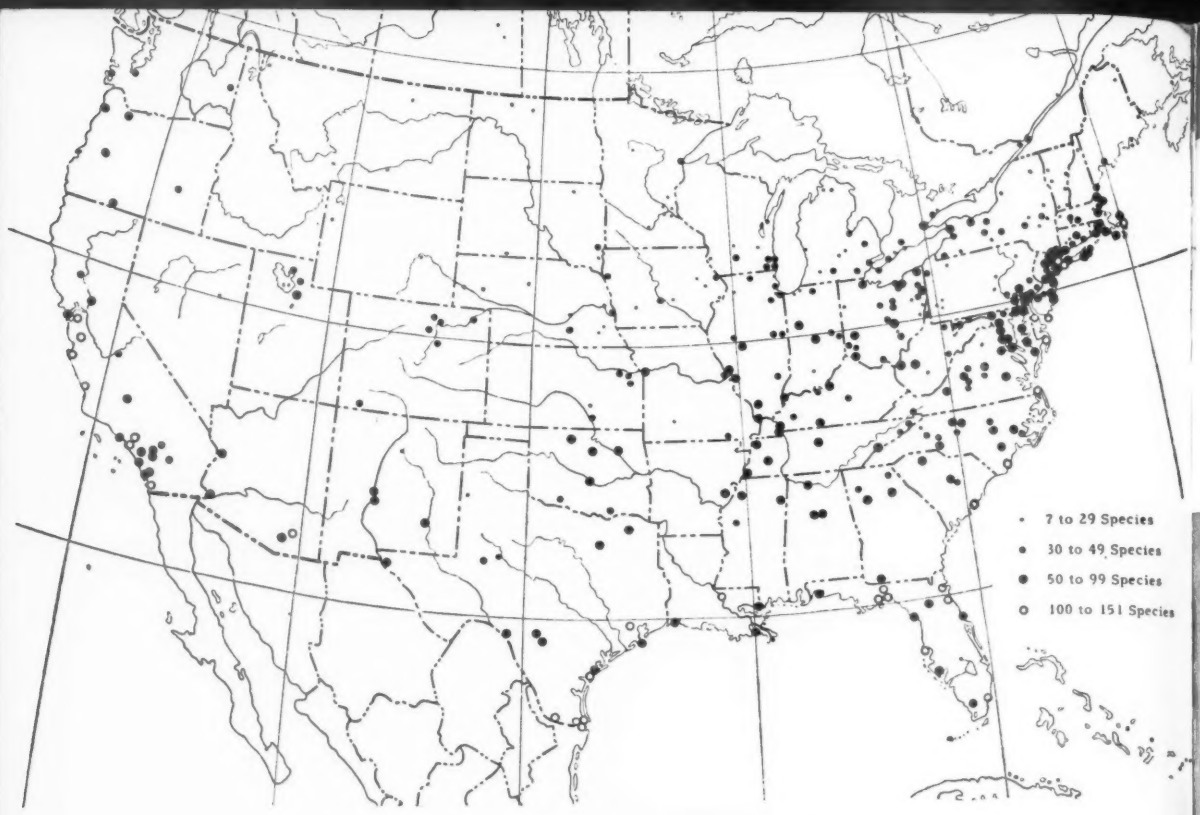
WING, LEONARD. 1943. Spread of the Starling and English Sparrow. *Auk*, 60 (1): 74-87.

WING, LEONARD. 1943. A summary of forty years of counting. *Aud. Mag.*, 45 (6): 380-381.

WING, LEONARD. 1947. Christmas Census summary 1900-1939. State College of Wash., Pullman. 270 p. (mimeo.).

WING, LEONARD, and MILLARD JENKS. 1939. Christmas Census: the amateurs' contribution to science. *Bird-Lore*, 41 (6): 343-350.

WOLFARTH, FLOYD P. 1948. Boonton Christmas Count: summary of 12 bird counts from 1936 to 1947. 3 p. (mimeo.).



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